

FIG. 1
PRIOR ART

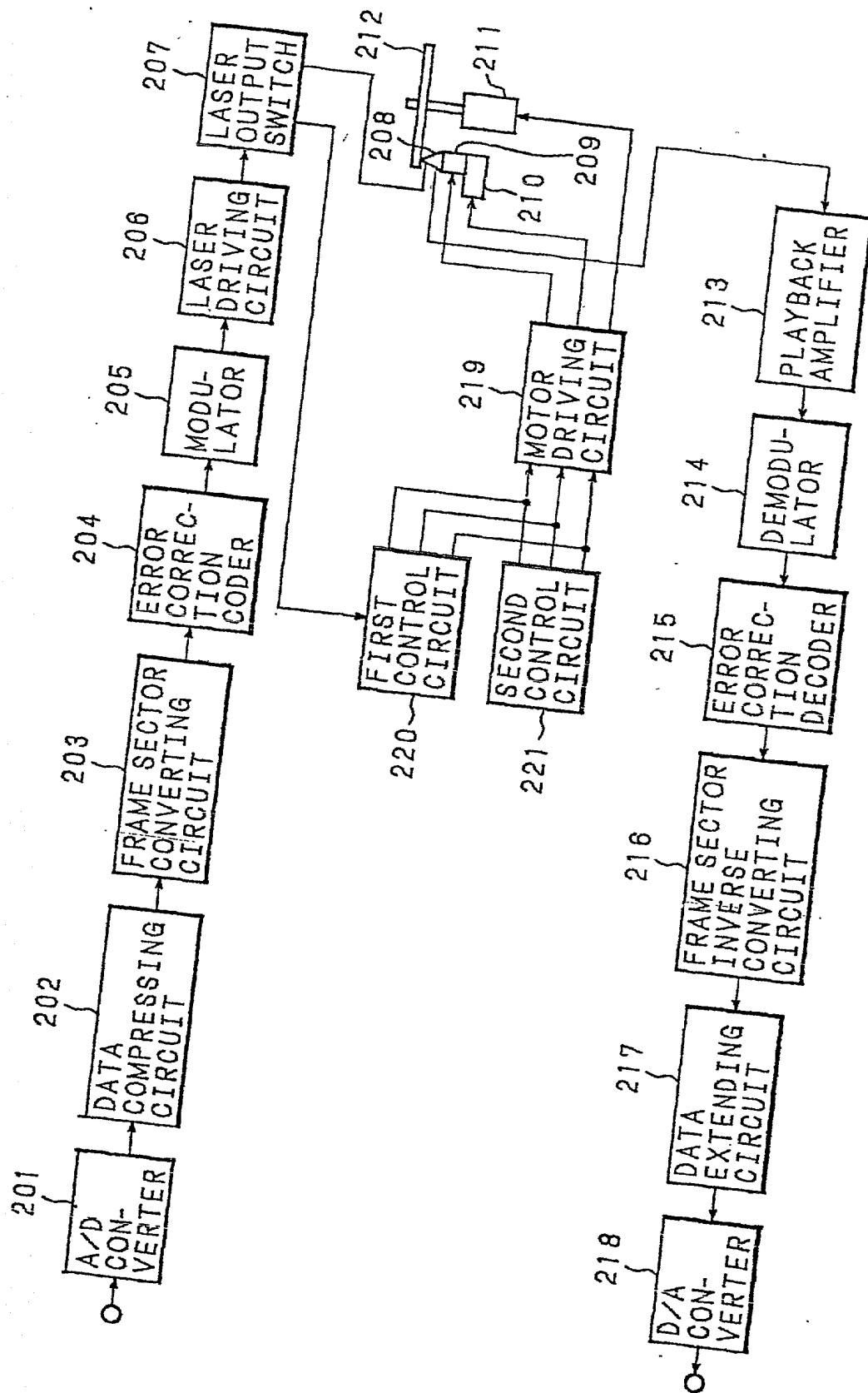


FIG. 2
PRIOR ART

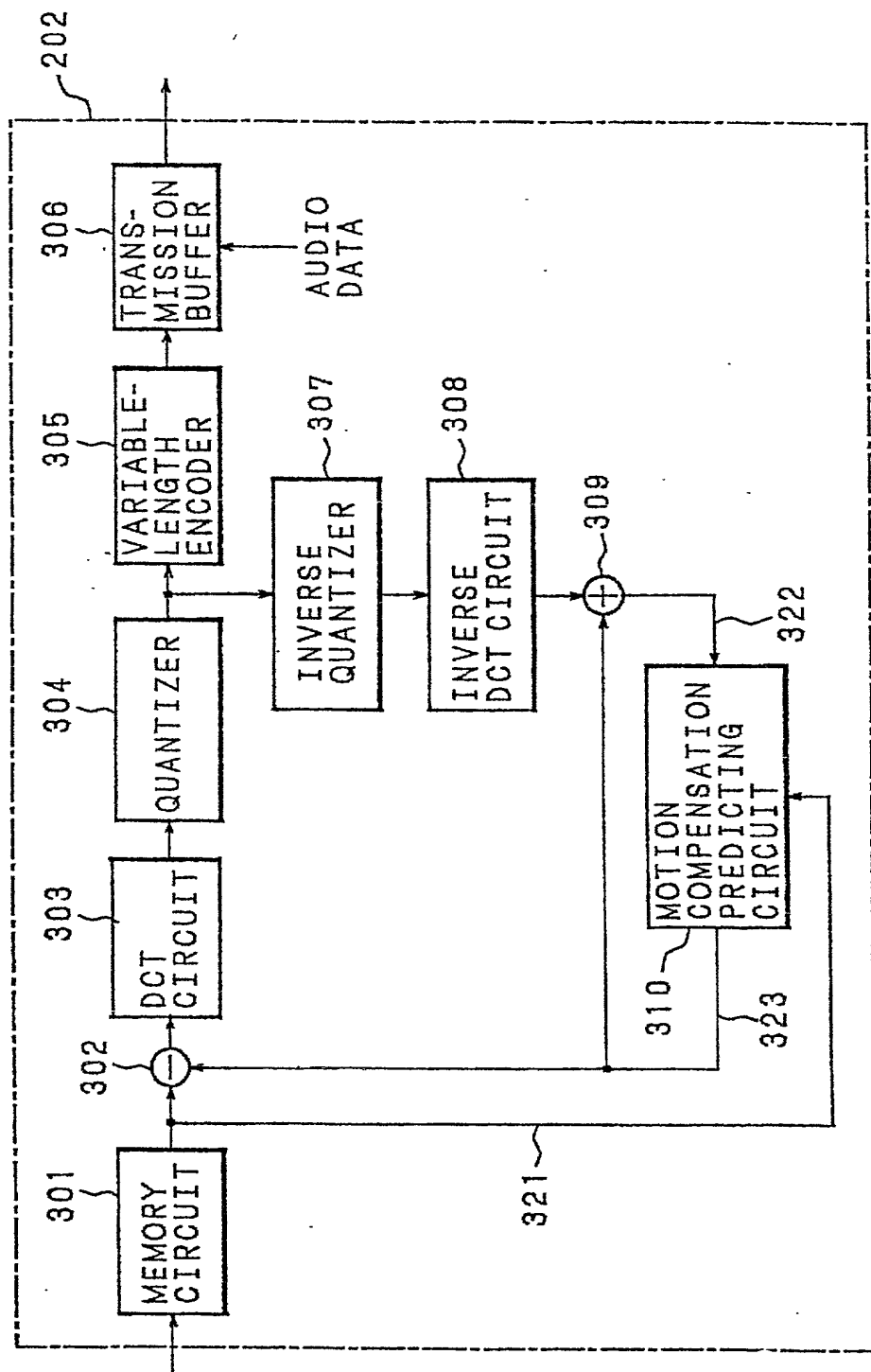


FIG. 3
PRIOR ART

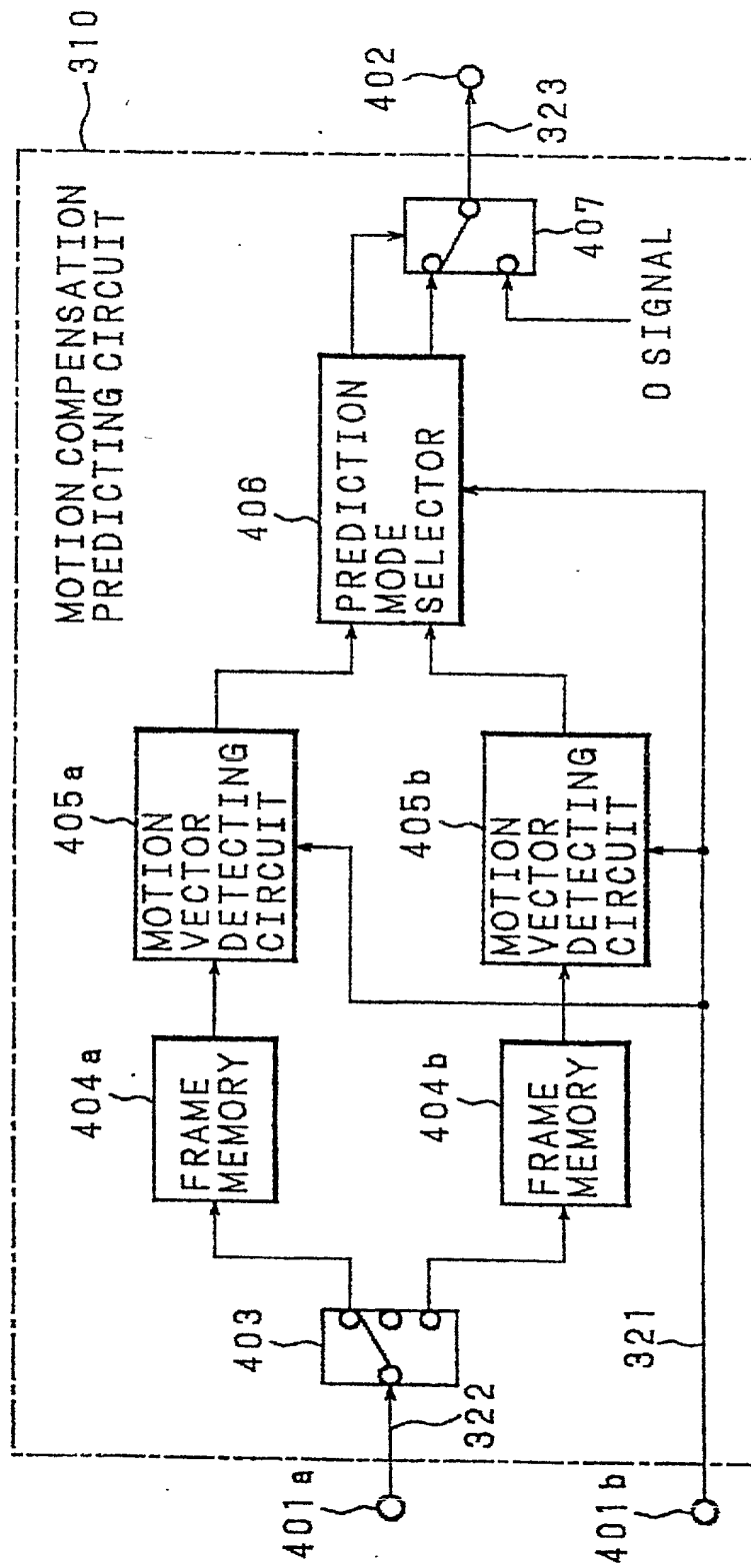


FIG. 4
PRIOR ART

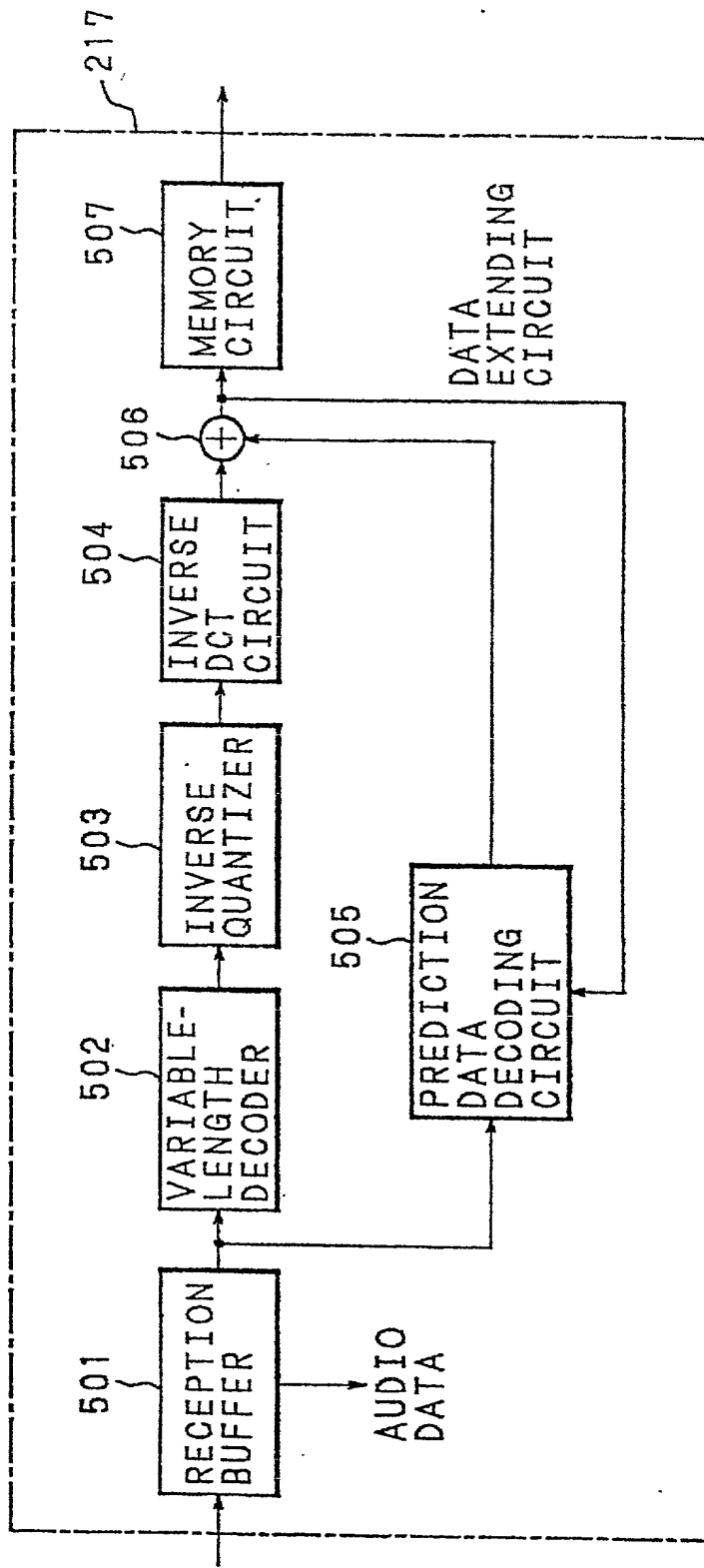


FIG. 5
PRIOR ART

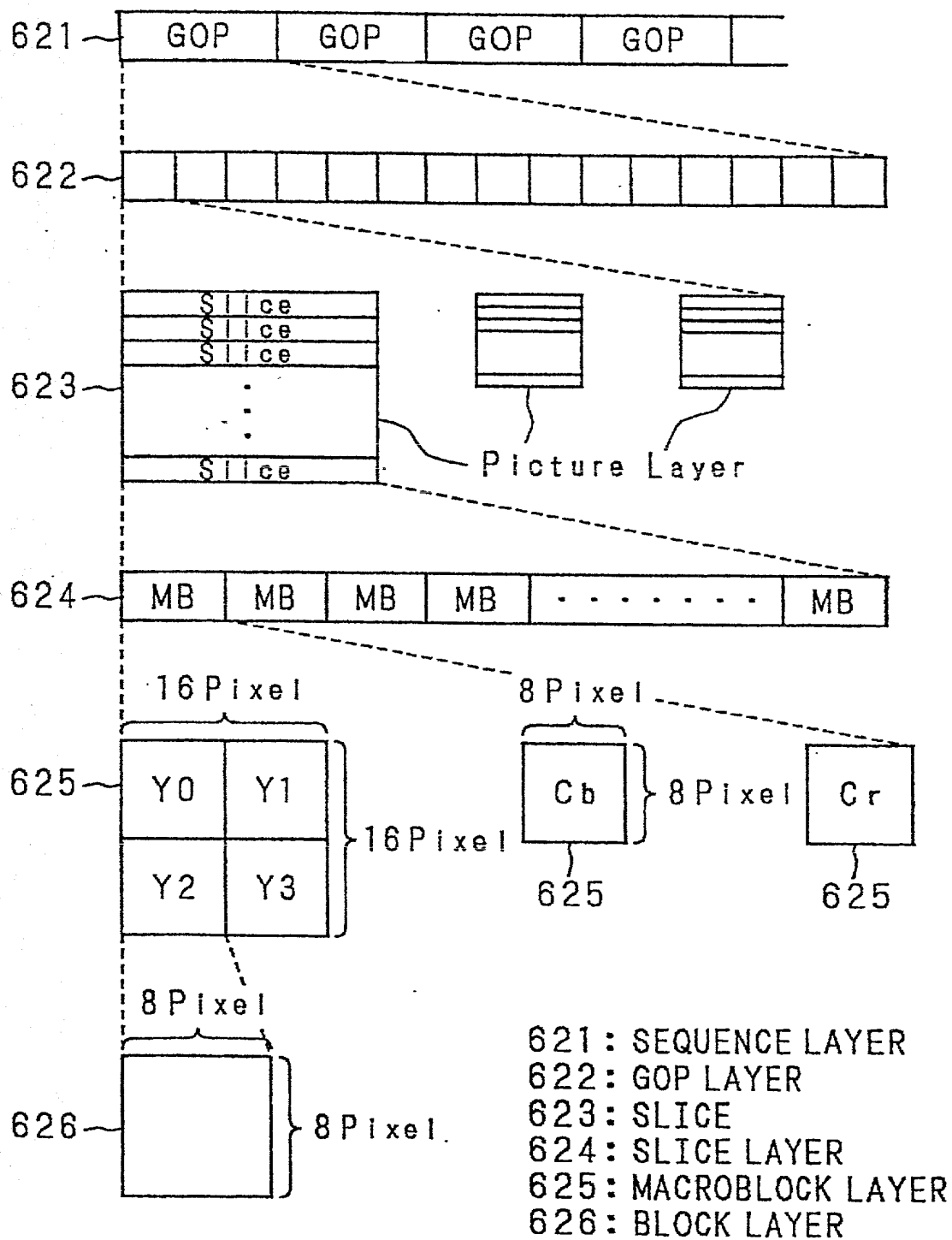


FIG. 6
PRIOR ART

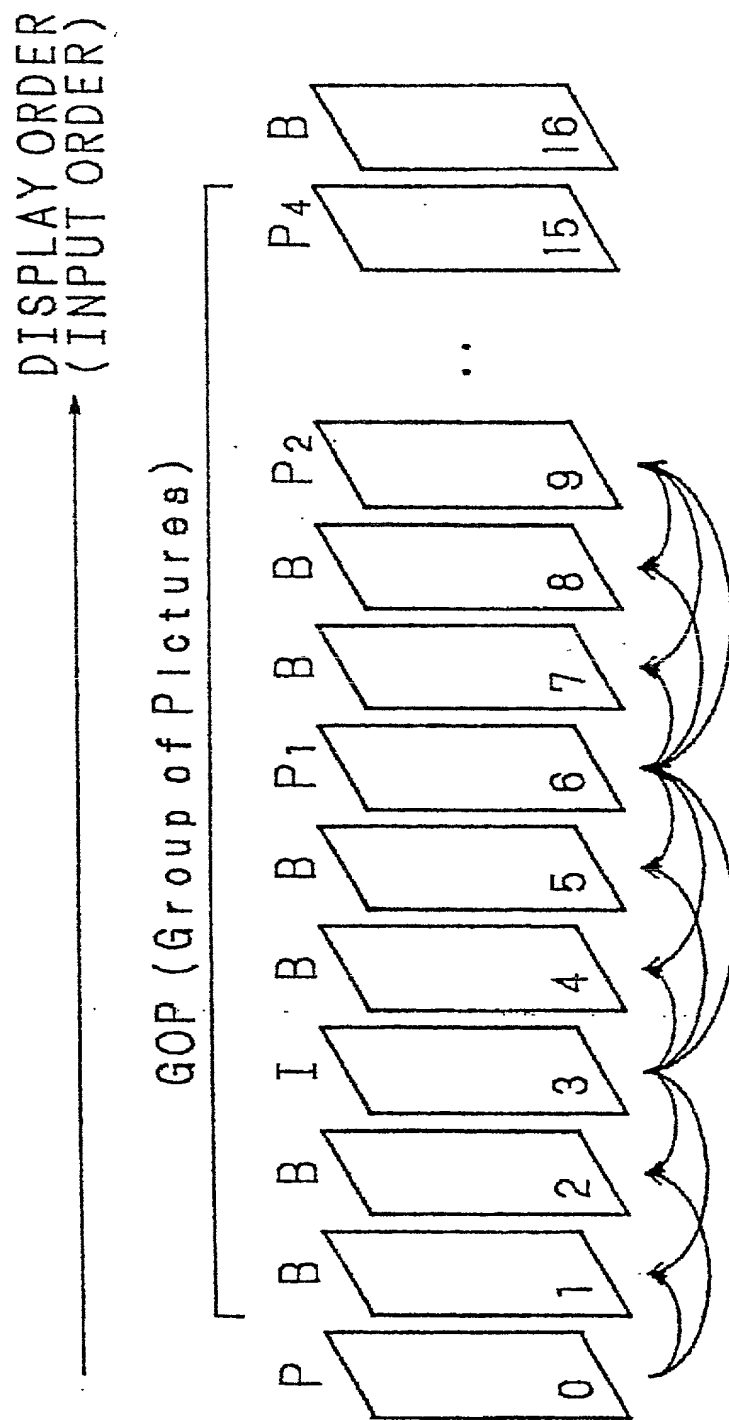


FIG. 7A
PRIOR ART
INPUT ORDER

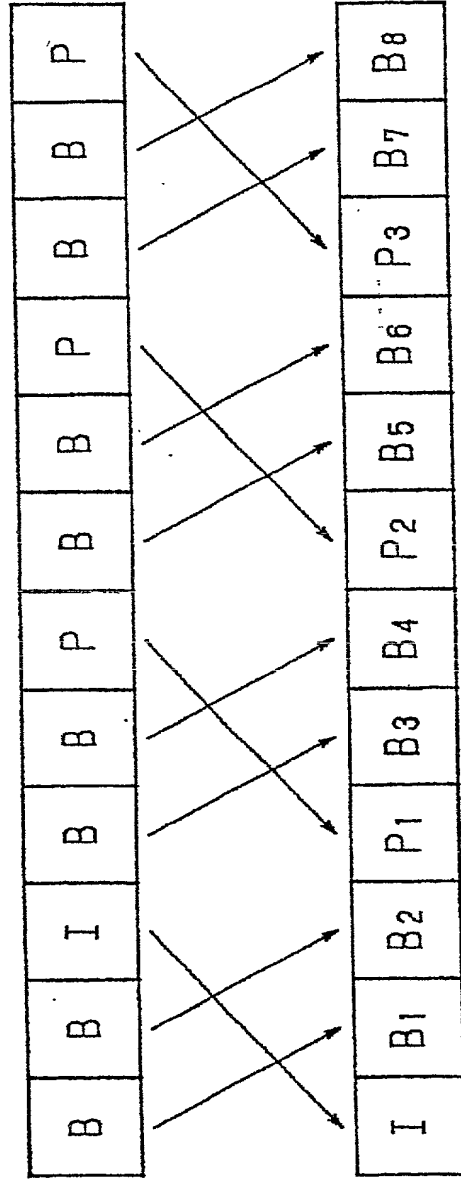


FIG. 7B
PRIOR ART
OUTPUT ORDER

FIG. 8
PRIOR ART

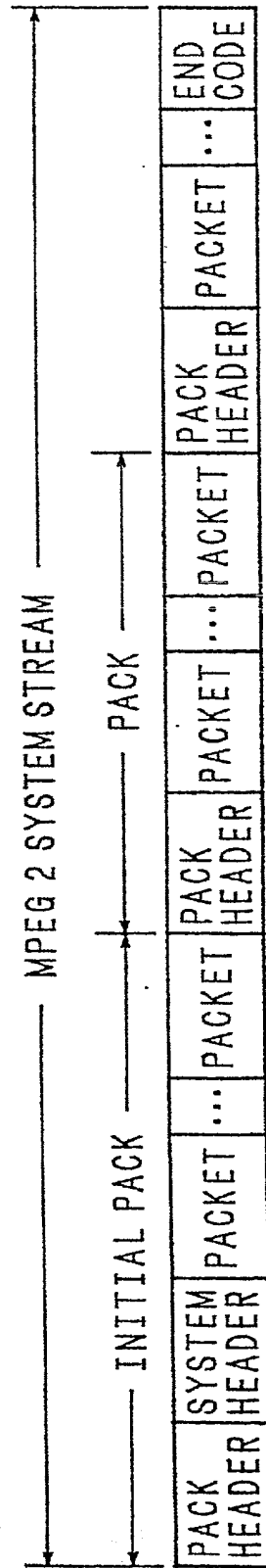


FIG. 9
PRIOR ART

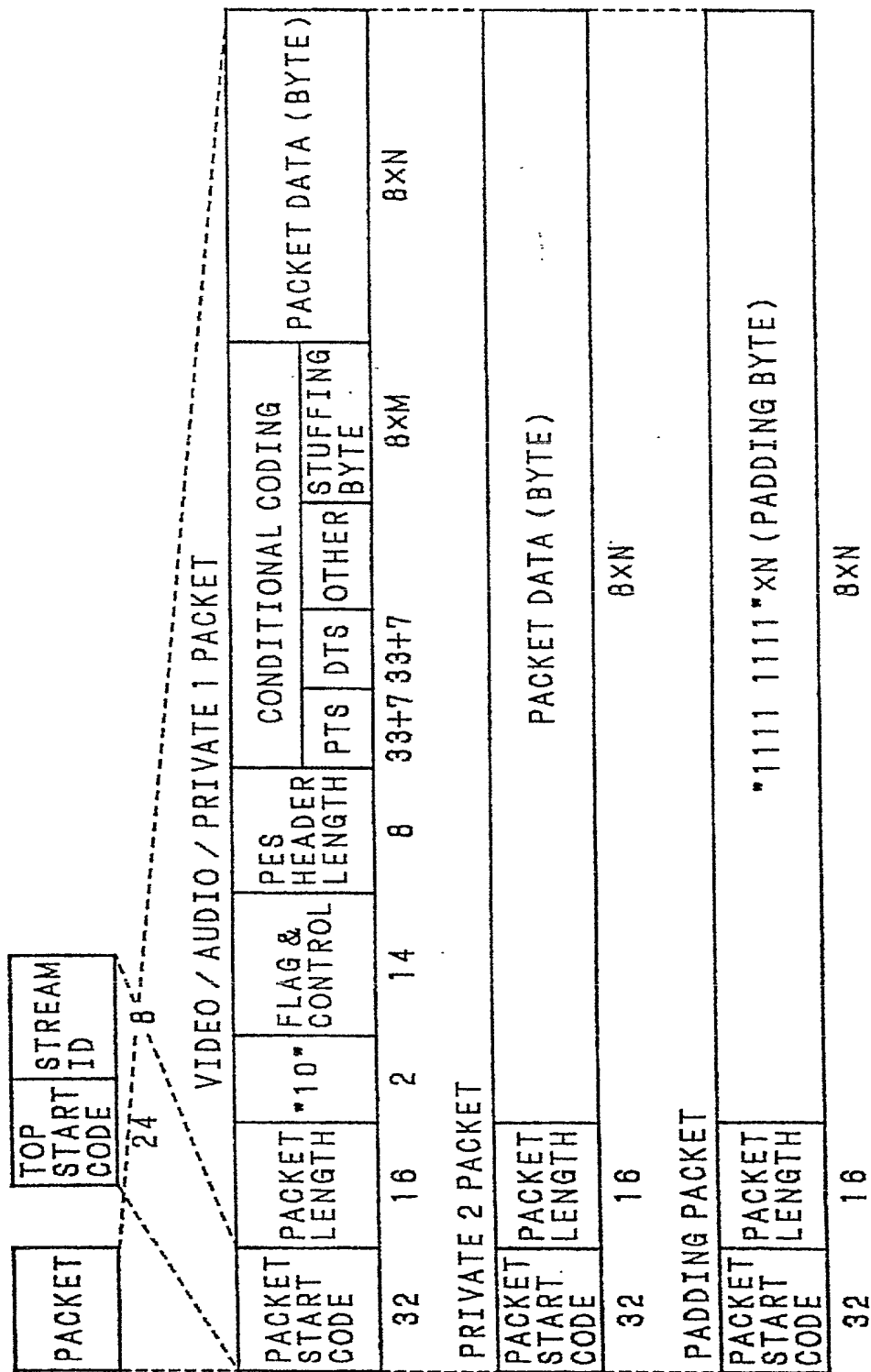


FIG. 10
PRIOR ART

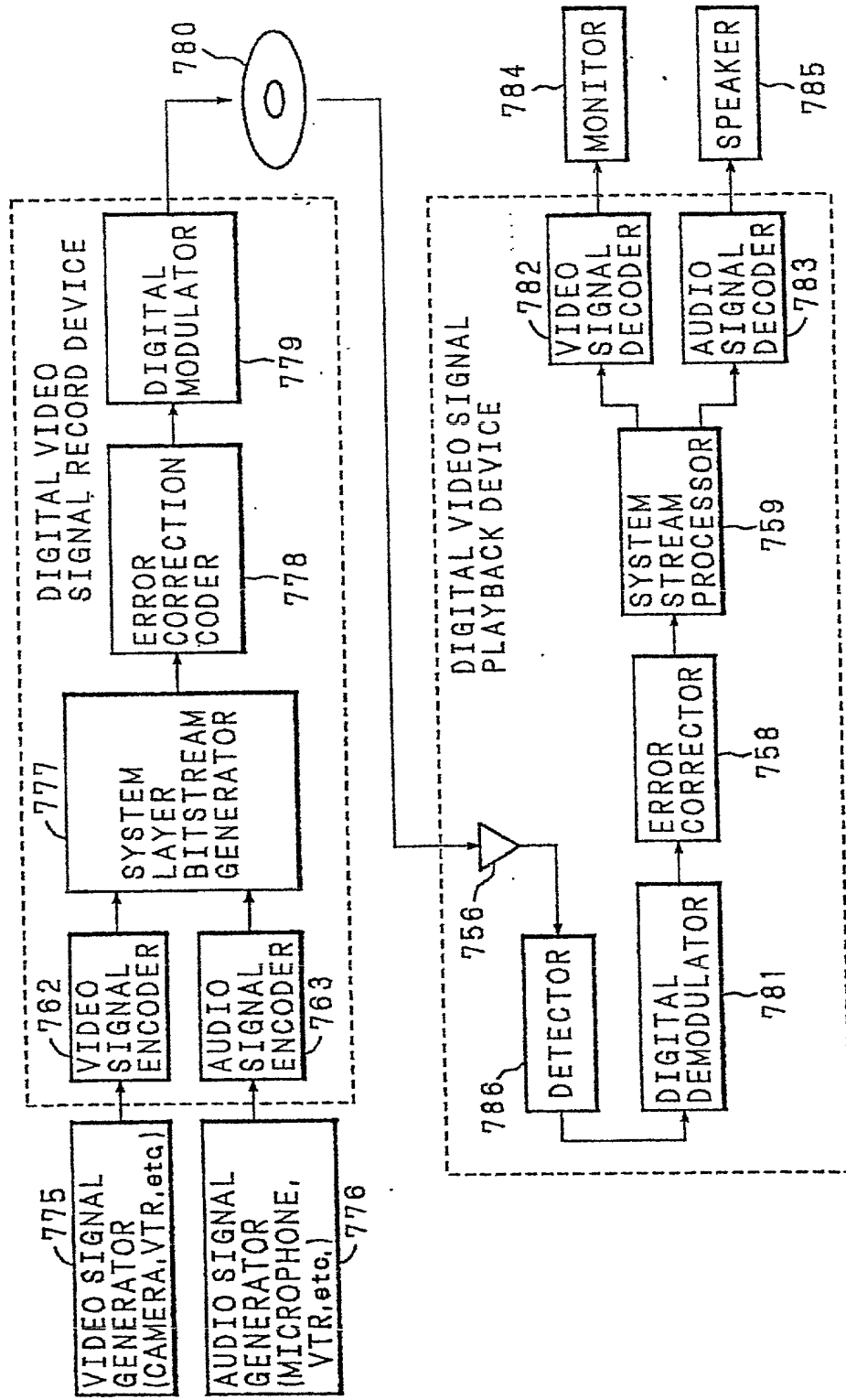


FIG. 11
PRIOR ART

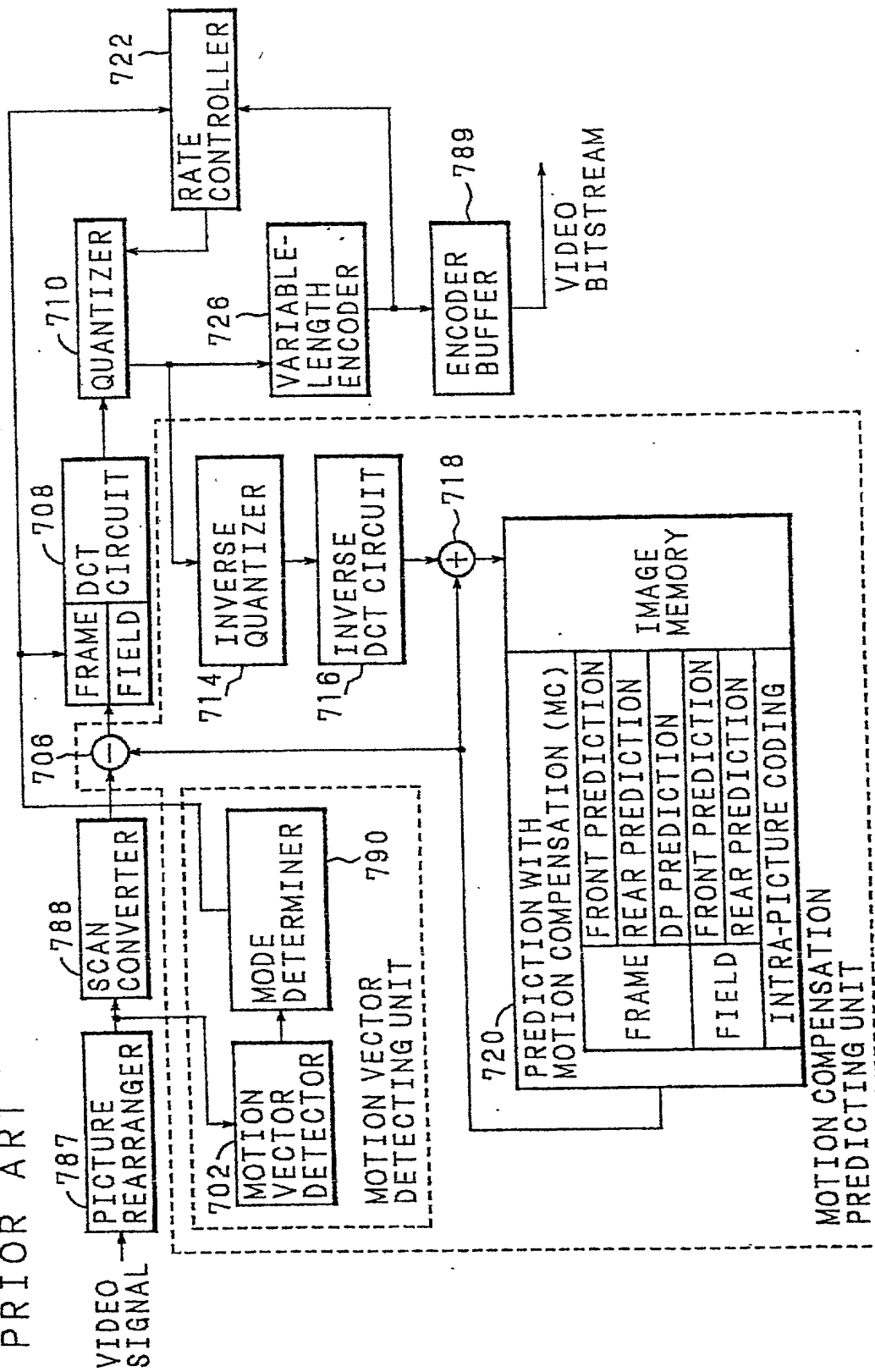


FIG. 12
PRIOR ART

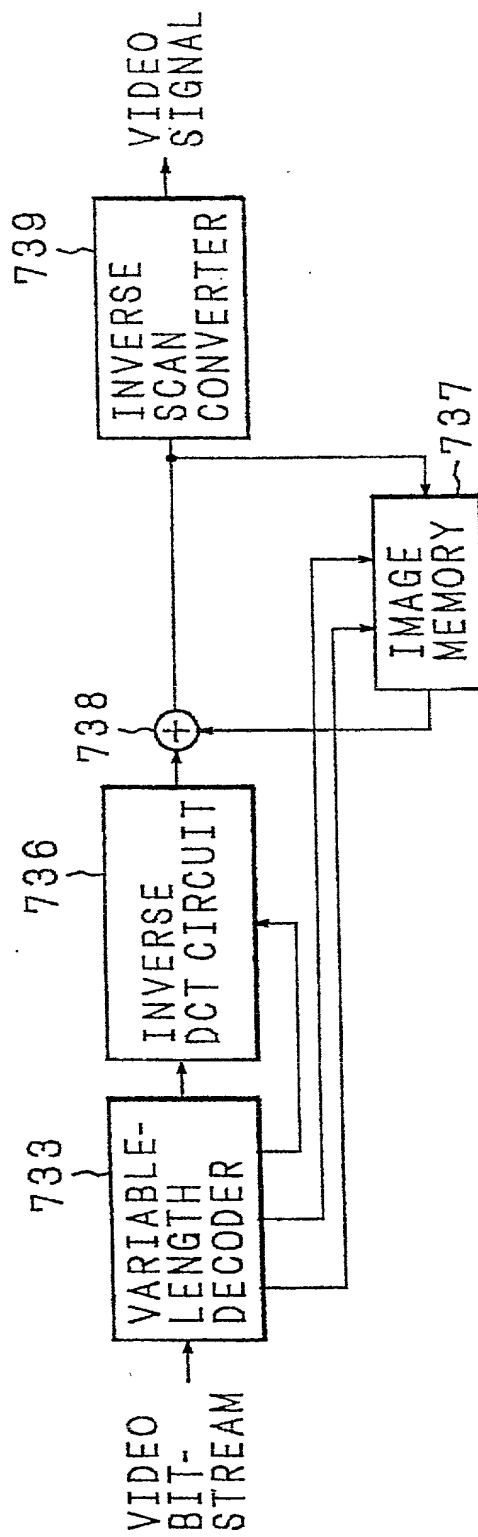
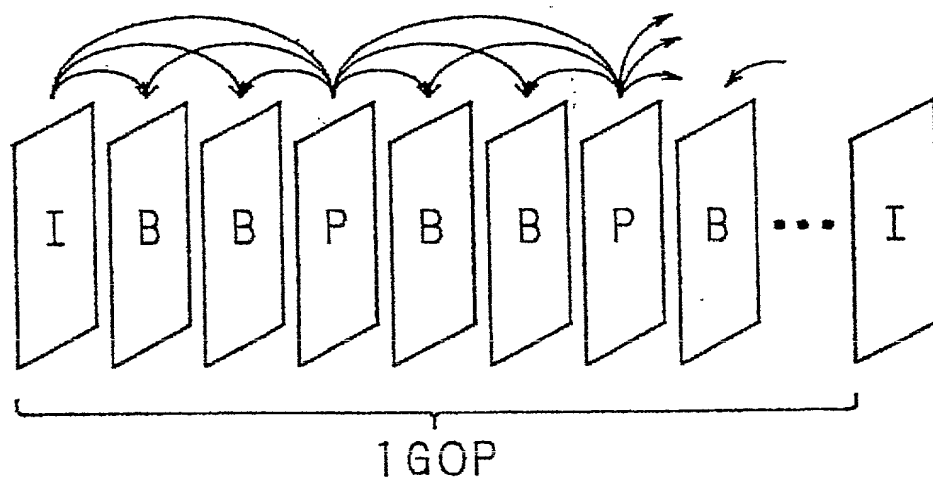


FIG. 13A
PRIOR ART



I: I-PICTURE
P: P-PICTURE
B: B-PICTURE

ARROW SHOWING PREDICTION

FIG. 13B
PRIOR ART

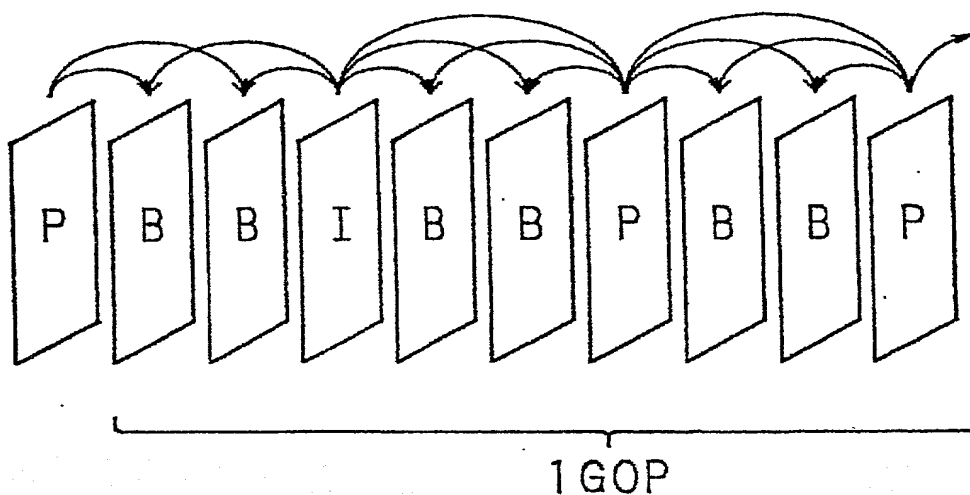


FIG. 14
PRIOR ART

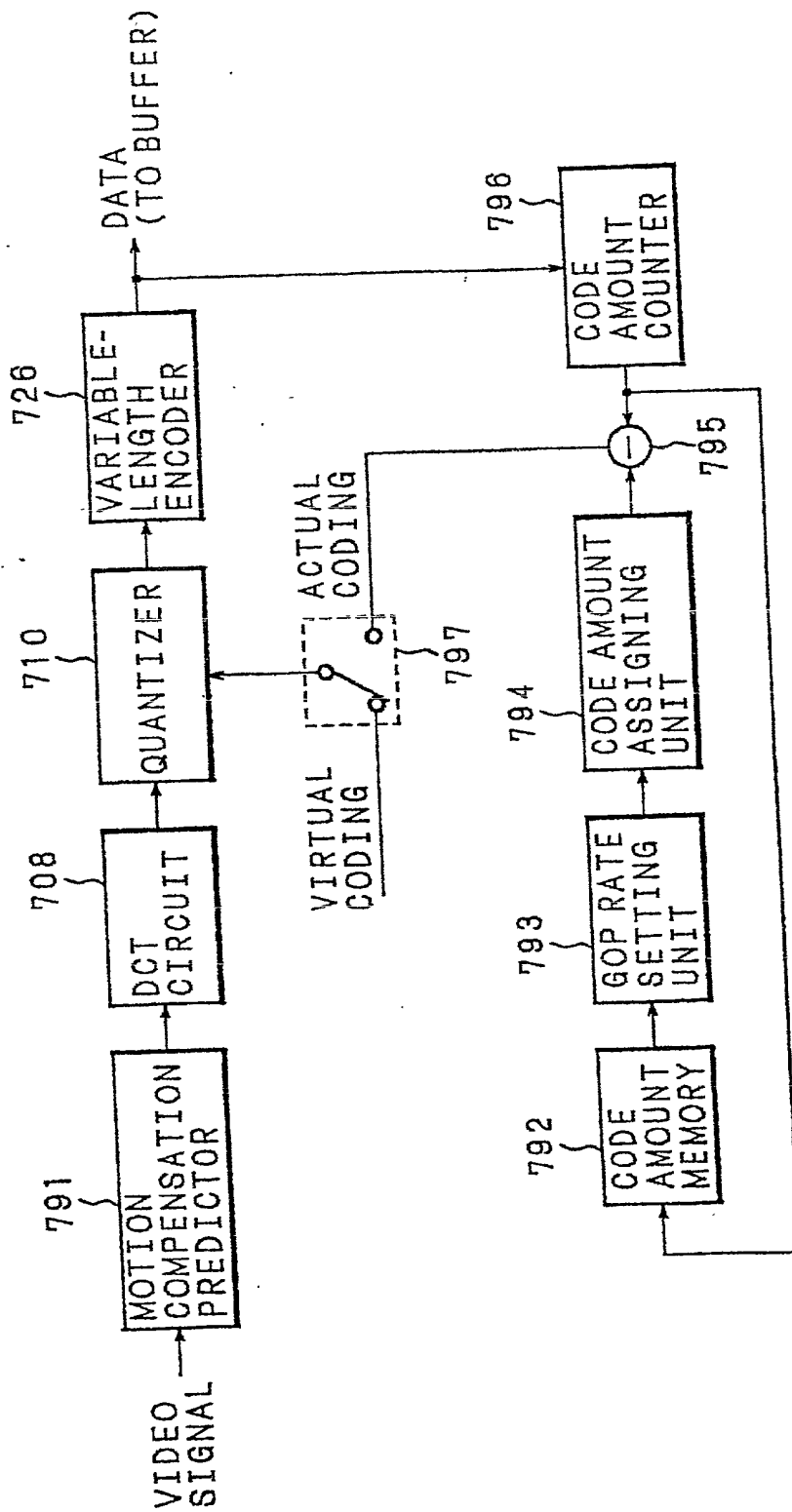


FIG. 15

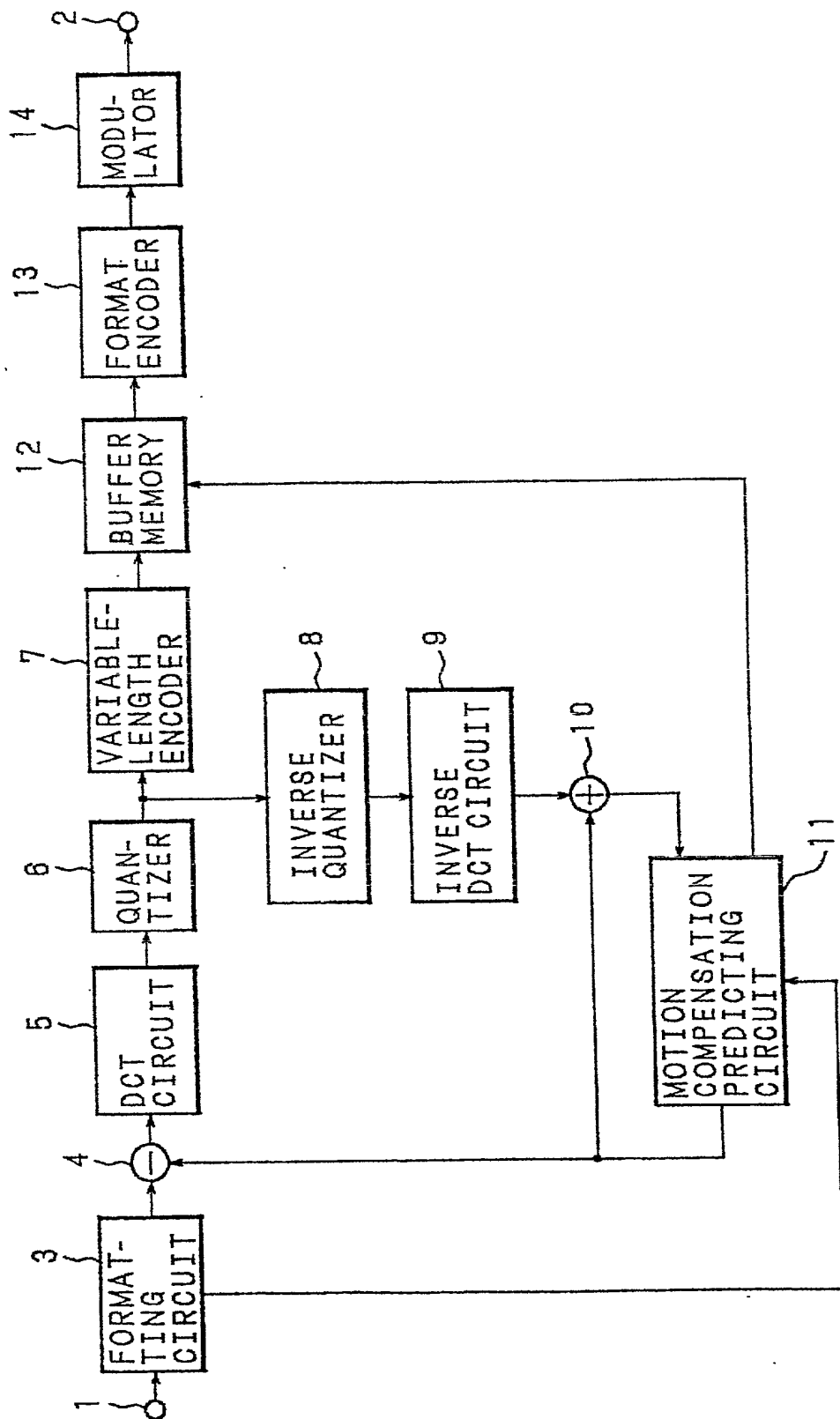


FIG. 16

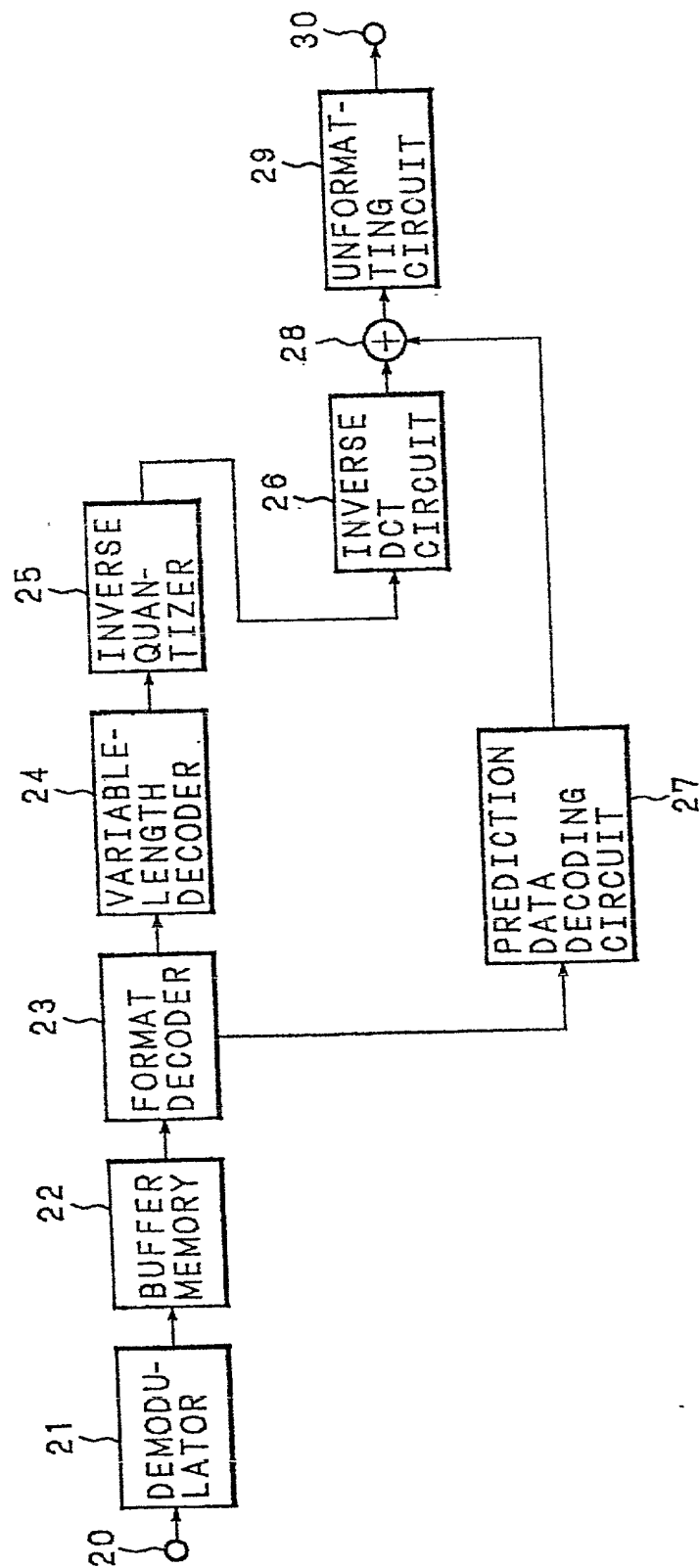


FIG. 17.

Y ₁	Y ₃
Y ₂	Y ₄

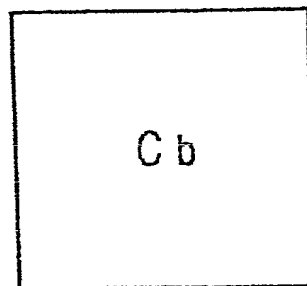
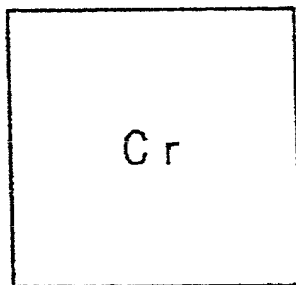


FIG. 18

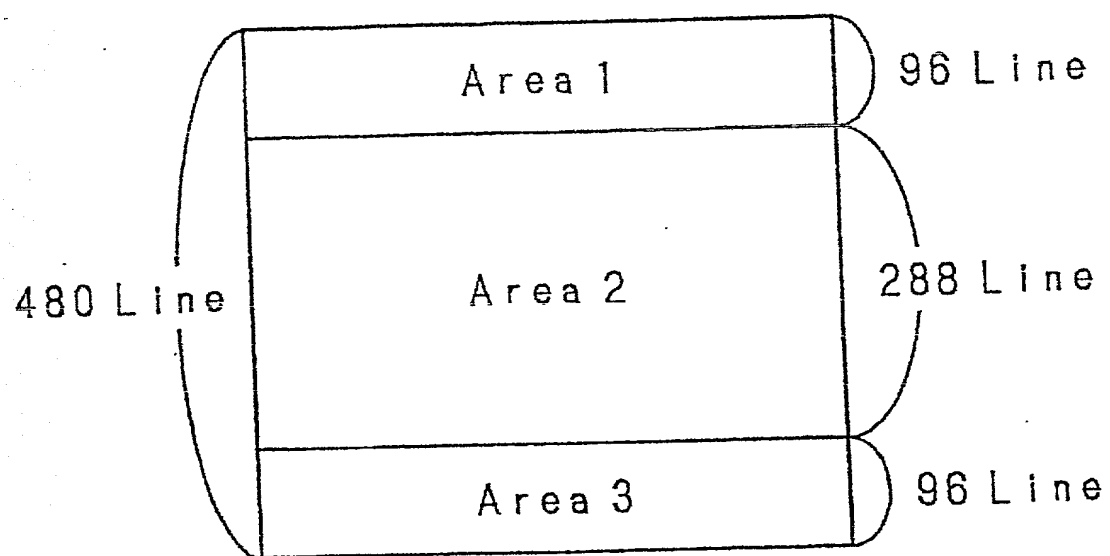


FIG. 19

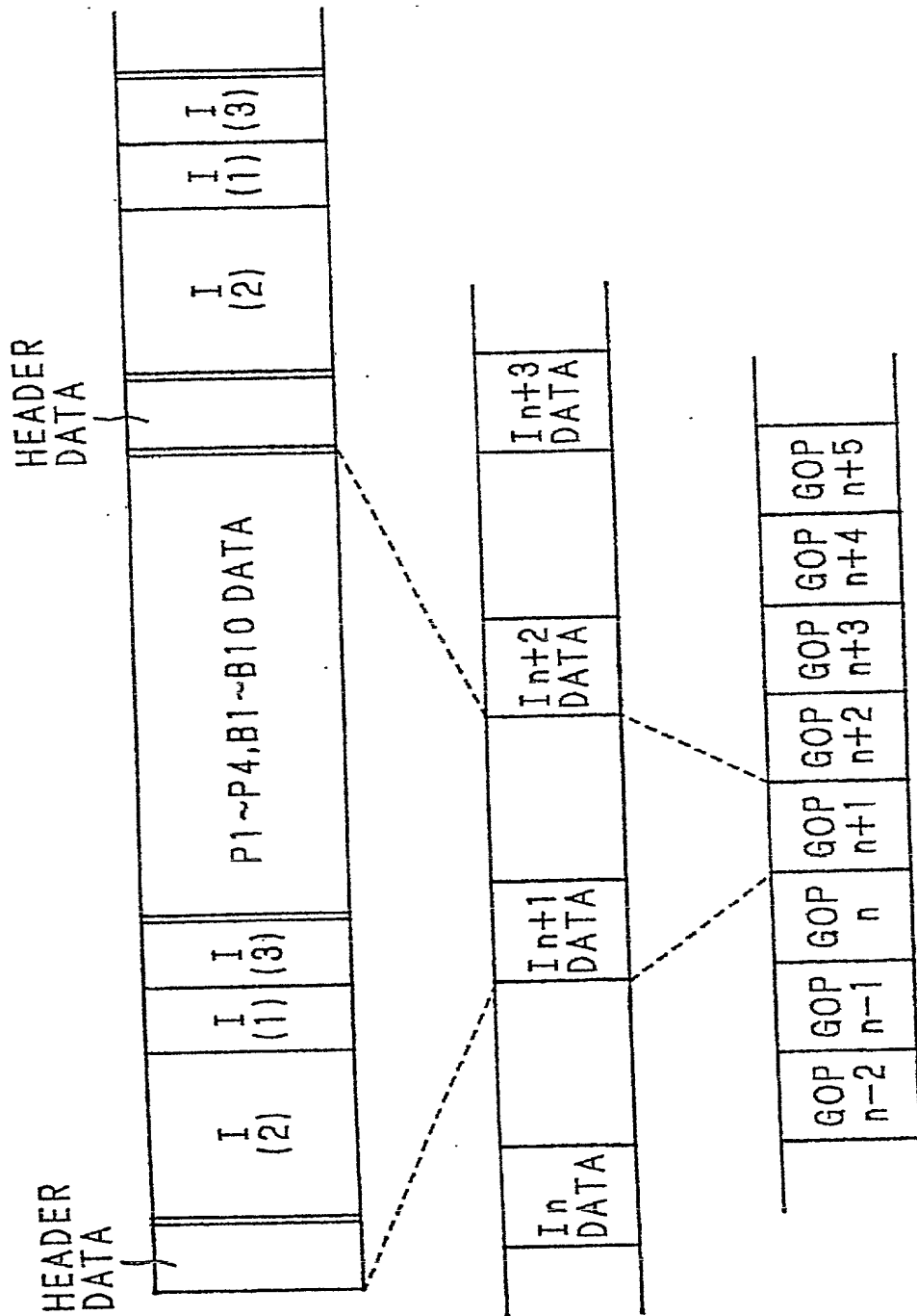
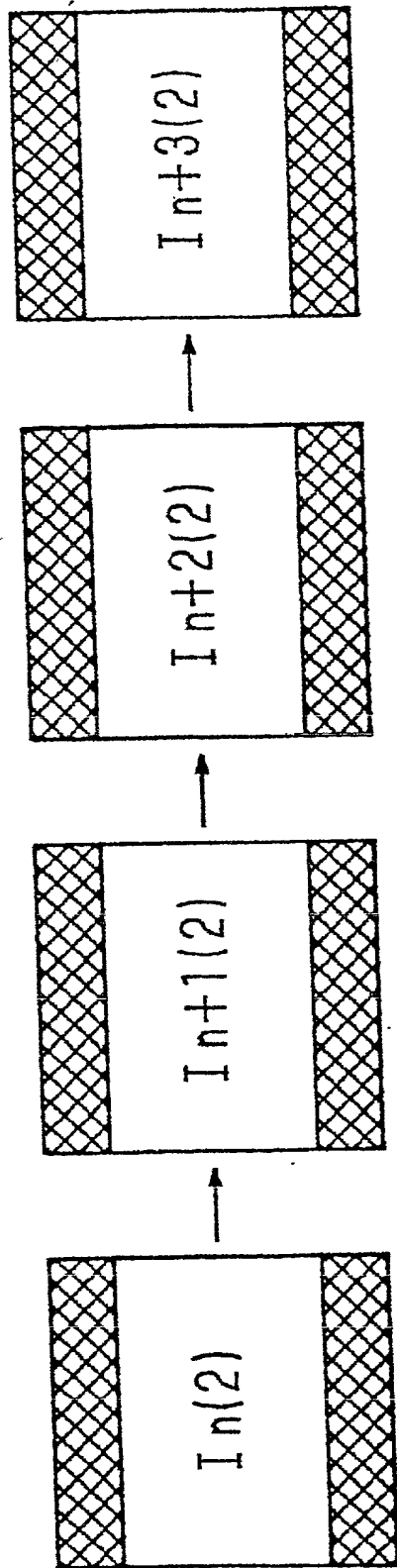


FIG. 20A

FIG. 20B

FIG. 20C

FIG. 20D



: MASK DATA



FIG. 21A

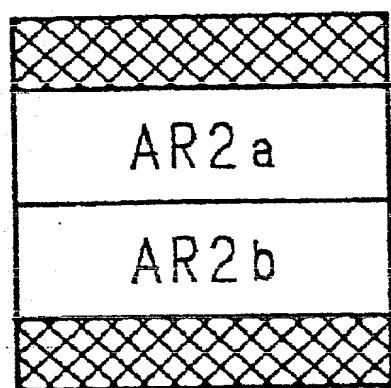


FIG. 21B

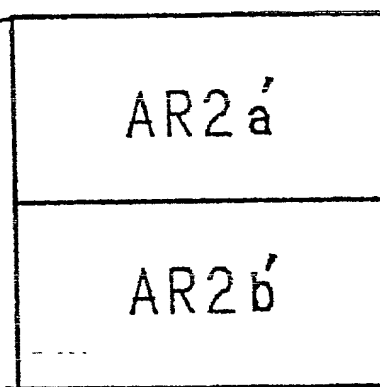


FIG. 22

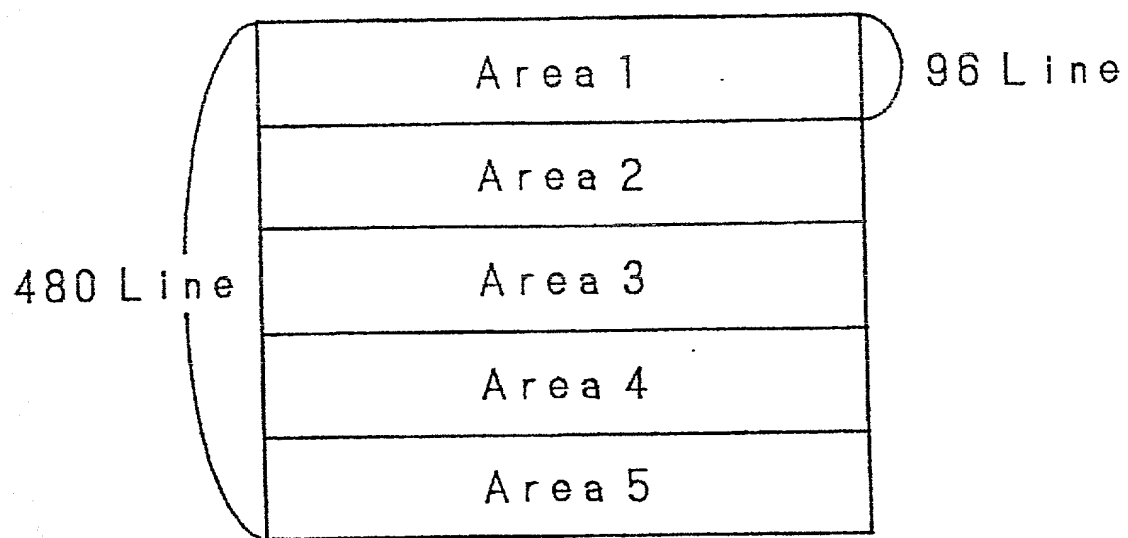


FIG. 23

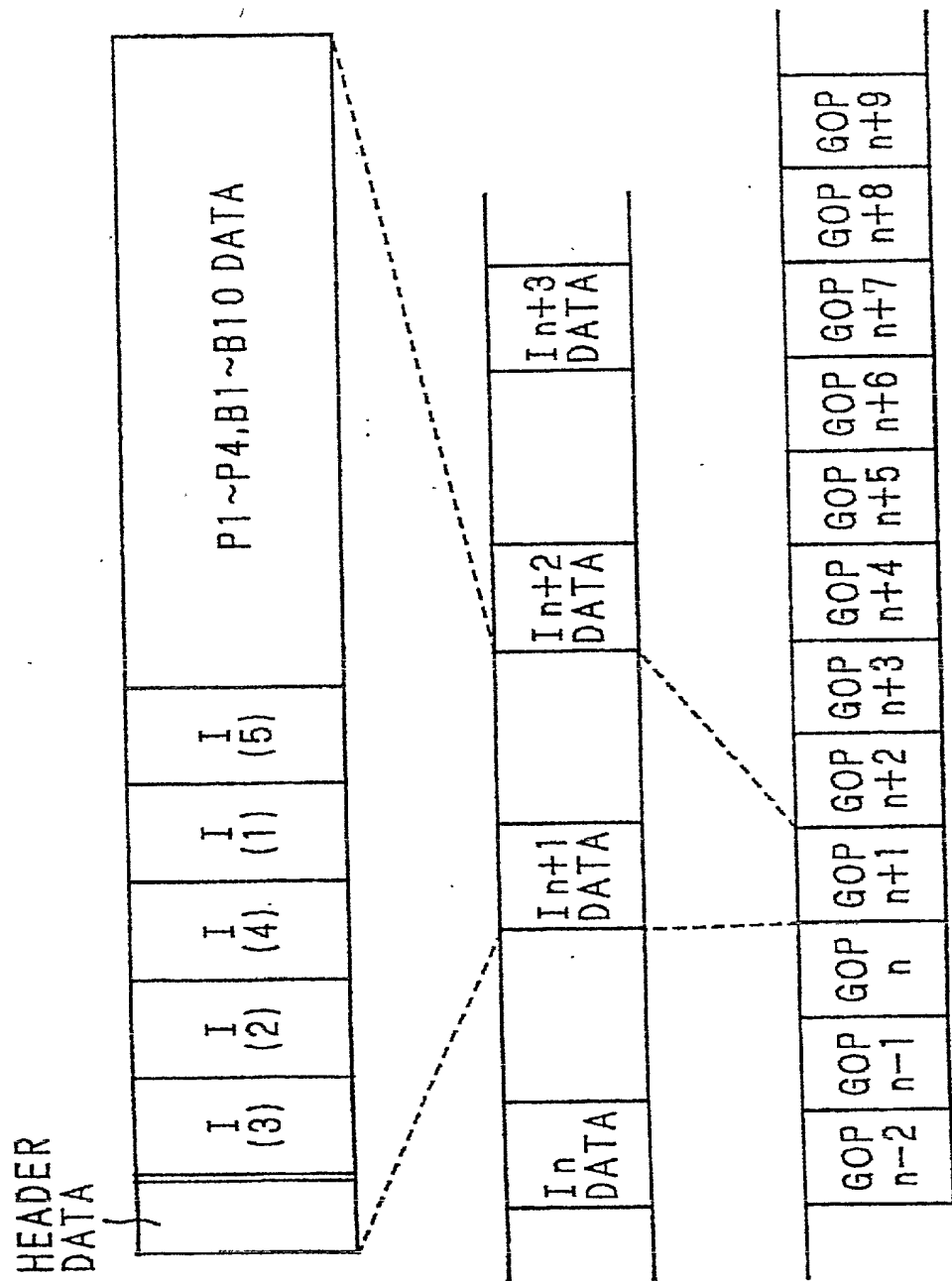


FIG. 24A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 24B

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 24C

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+2}(3)$
$I_{n+2}(4)$
$I_{n+2}(5)$



FIG. 24D

$I_{n+2}(1)$
$I_{n+3}(2)$
$I_{n+3}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



FIG. 24E

$I_{n+4}(1)$
$I_{n+4}(2)$
$I_{n+4}(3)$
$I_{n+4}(4)$
$I_{n+4}(5)$

FIG. 25A

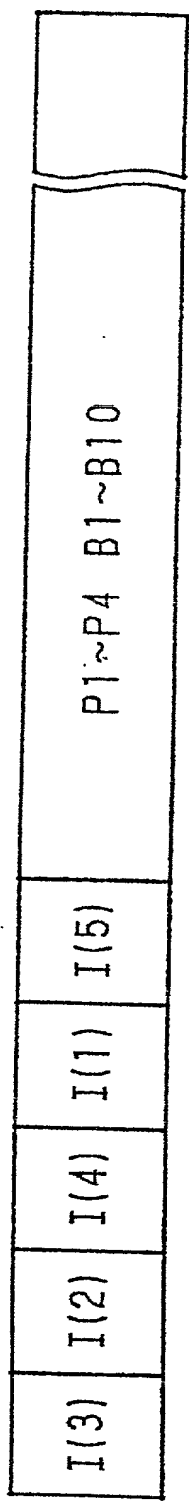


FIG. 25B

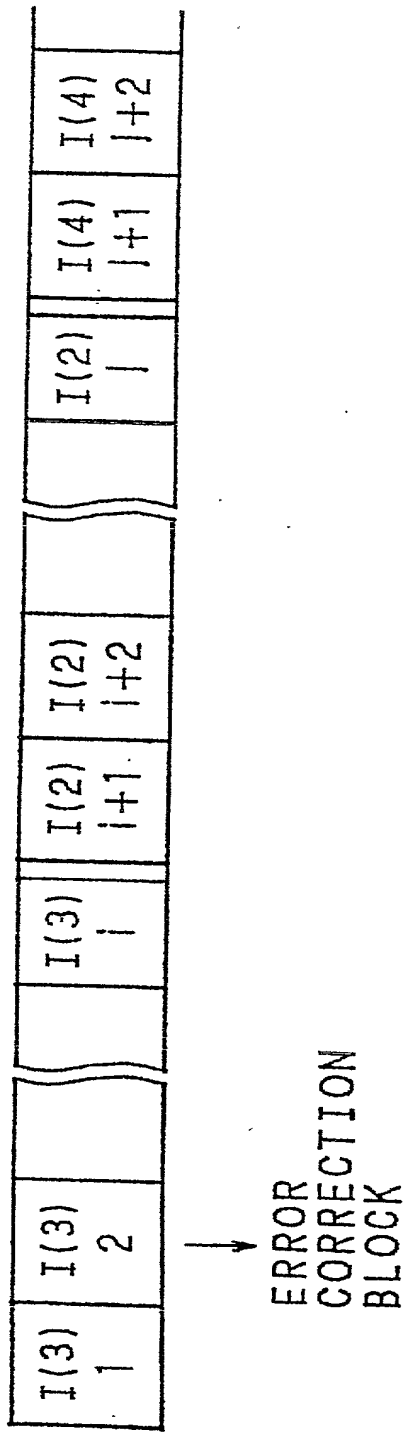


FIG. 26A

$I_{n+4}(1)$
$I_{n+3}(2)$
$I_{n+2}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 26B

$I_{n+5}(1)$
$I_{n+4}(2)$
$I_{n+3}(3)$
$I_{n+2}(4)$
$I_{n+1}(5)$



FIG. 26C

$I_{n+6}(1)$
$I_{n+5}(2)$
$I_{n+4}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



FIG. 26D

$I_{n+7}(1)$
$I_{n+6}(2)$
$I_{n+5}(3)$
$I_{n+4}(4)$
$I_{n+3}(5)$

FIG. 27A

$I_{n+2}(1)$
$I_{n+1}(2)$
$I_n(3)$
$I_{n-1}(4)$
$I_{n-2}(5)$



FIG. 27B

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+1}(3)$
$I_n(4)$
$I_{n-1}(5)$



FIG. 27C

$I_{n+4}(1)$
$I_{n+3}(2)$
$I_{n+2}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 27D

$I_{n+5}(1)$
$I_{n+4}(2)$
$I_{n+3}(3)$
$I_{n+2}(4)$
$I_n(5)$



FIG. 27E

$I_{n+6}(1)$
$I_{n+5}(2)$
$I_{n+4}(3)$
$I_{n+3}(4)$
$I_{n+2}(5)$



FIG. 27F

$I_{n+7}(1)$
$I_{n+6}(2)$
$I_{n+5}(3)$
$I_{n+4}(4)$
$I_{n+3}(5)$



FIG. 29A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 29B

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_n(5)$



FIG. 29C

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+2}(3)$
$I_{n+2}(4)$
$I_{n+2}(5)$



FIG. 29D

$I_{n+2}(1)$
$I_{n+2}(2)$
$I_{n+3}(3)$
$I_{n+3}(4)$
$I_{n+3}(5)$

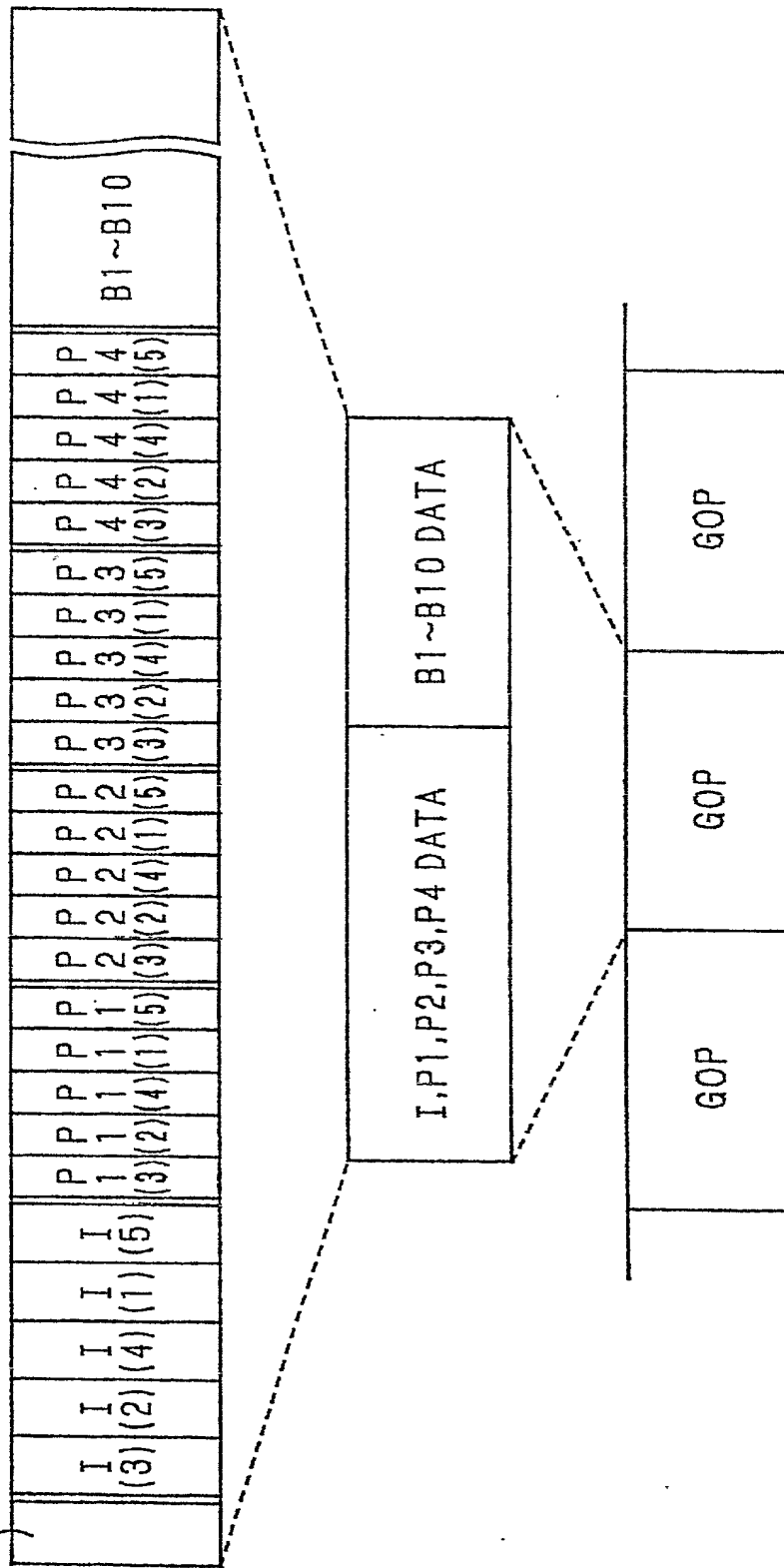


FIG. 29E

$I_{n+4}(1)$
$I_{n+4}(2)$
$I_{n+4}(3)$
$I_{n+4}(4)$
$I_{n+4}(5)$

FIG. 30

HEADER
DATA



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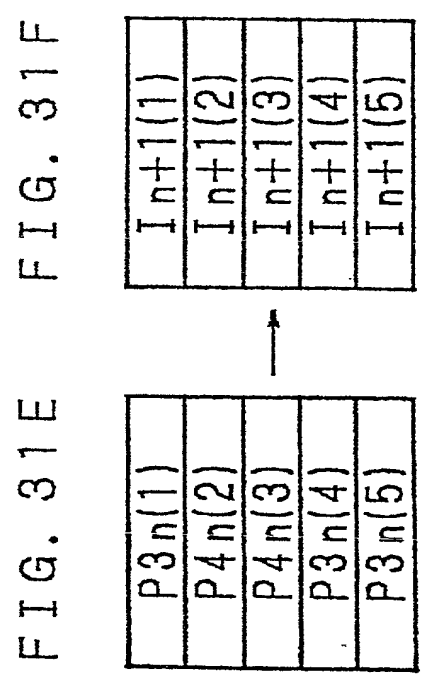
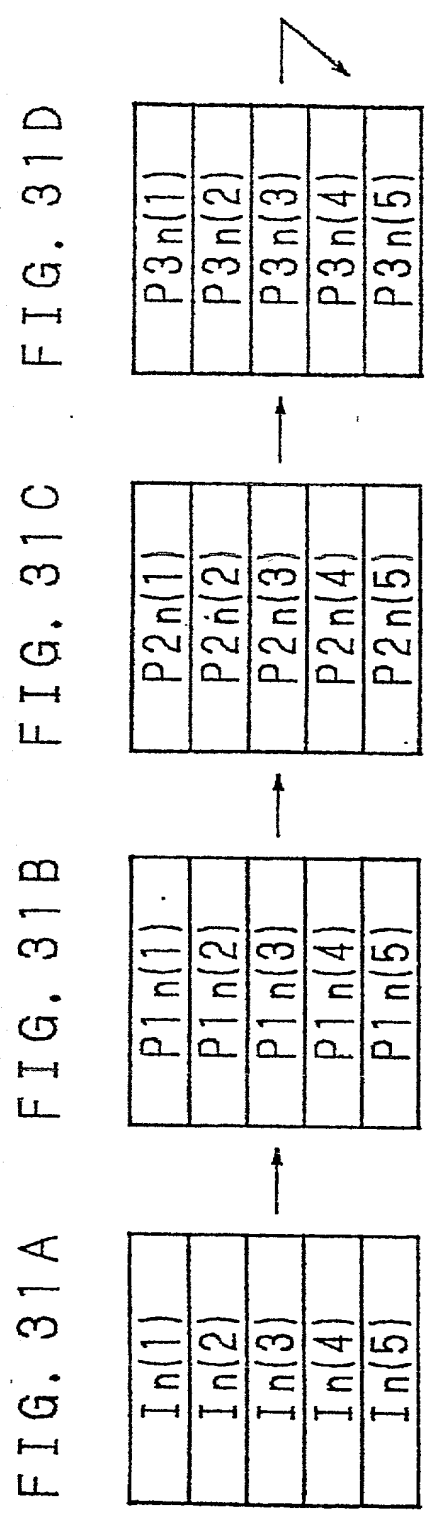


FIG. 32A

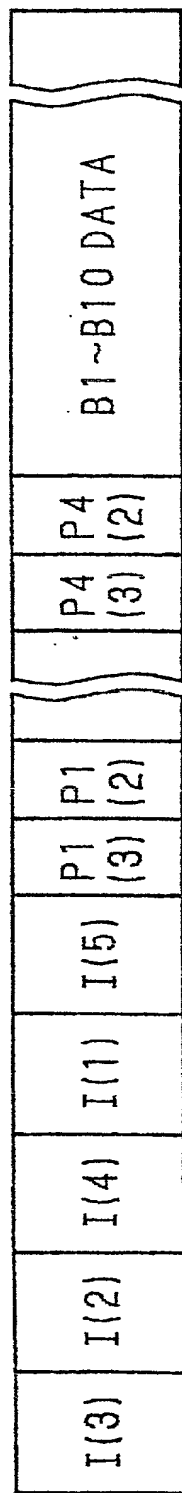
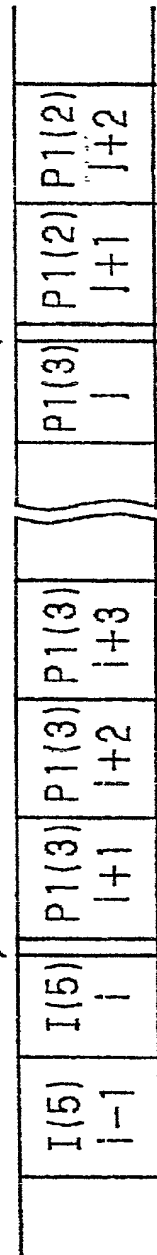


FIG. 32B



↓
ERROR
CORRECTION
BLOCK

FIG. 33A

P4n(1)
P3n(2)
P2n(3)
P1n(4)
In (5)



In+1(1)
P4n (2)
P3n (3)
P2n (4)
P1n (5)



P1n+1(1)
In+1 (2)
P4n (3)
P3n (4)
P2n (5)



P2n+1(1)
P1n+1(2)
In+1 (3)
P4n (4)
P5n+1(5)



FIG. 33B

FIG. 33C

FIG. 33D

FIG. 33E

P3n+1(1)
P2n+1(2)
P1n+1(3)
In+1 (4)
P4n (5)



P4n+1(1)
P3n+1(2)
P2n+1(3)
P1n+1(4)
In+1 (5)



In+2 (1)
P4n+1(2)
P3n+1(3)
P2n+1(4)
P1n+1(5)

FIG. 33F

FIG. 33G

FIG. 34A

P_{3n}	(1)
P_{2n}	(2)
P_{1n}	(3)
I_n	(4)
P_{4n-1}	(5)



FIG. 34B

P_{3n}	(1)
P_{3n}	(2)
P_{2n}	(3)
P_{1n}	(4)
I_n	(5)



FIG. 34C

I_{n+1}	(1)
P_{4n}	(2)
P_{3n}	(3)
P_{2n}	(4)
P_{1n}	(5)



FIG. 34D

P_{1n+1}	(1)
I_{n+1}	(2)
P_{4n}	(3)
P_{3n}	(4)
P_{2n}	(5)



FIG. 34E

P_{2n+1}	(1)
P_{1n+1}	(2)
I_{n+1}	(3)
P_{3n}	(4)
P_{3n}	(5)



FIG. 34F

P_{3n+1}	(1)
P_{2n+1}	(2)
P_{1n+1}	(3)
I_{n+1}	(4)
P_{3n}	(5)



FIG. 35

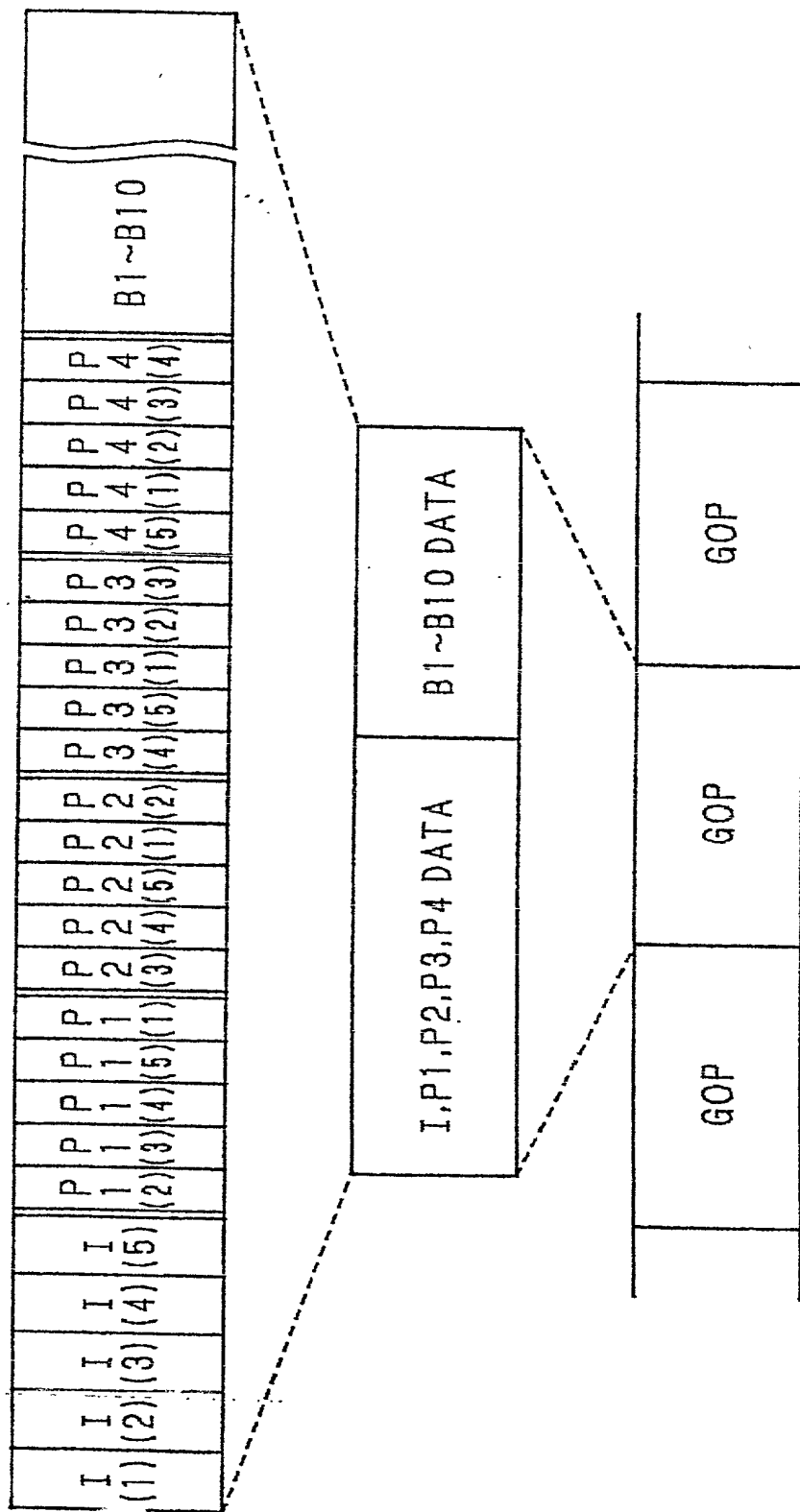


FIG. 36A

$I_n(1)$
$I_n(2)$
$I_n(3)$
$I_n(4)$
$I_n(5)$



FIG. 36B

$P1_n(1)$
$P1_n(2)$
$P1_n(3)$
$P1_n(4)$
$P1_n(5)$



FIG. 36C

$P2_n(1)$
$P2_n(2)$
$P2_n(3)$
$P2_n(4)$
$P2_n(5)$



FIG. 36D

$P3_n(1)$
$P3_n(2)$
$P3_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 36E

$P4_n(1)$
$P4_n(2)$
$P3_n(3)$
$P3_n(4)$
$P3_n(5)$



FIG. 36F

$I_{n+1}(1)$
$I_{n+1}(2)$
$I_{n+1}(3)$
$I_{n+1}(4)$
$I_{n+1}(5)$



FIG. 37

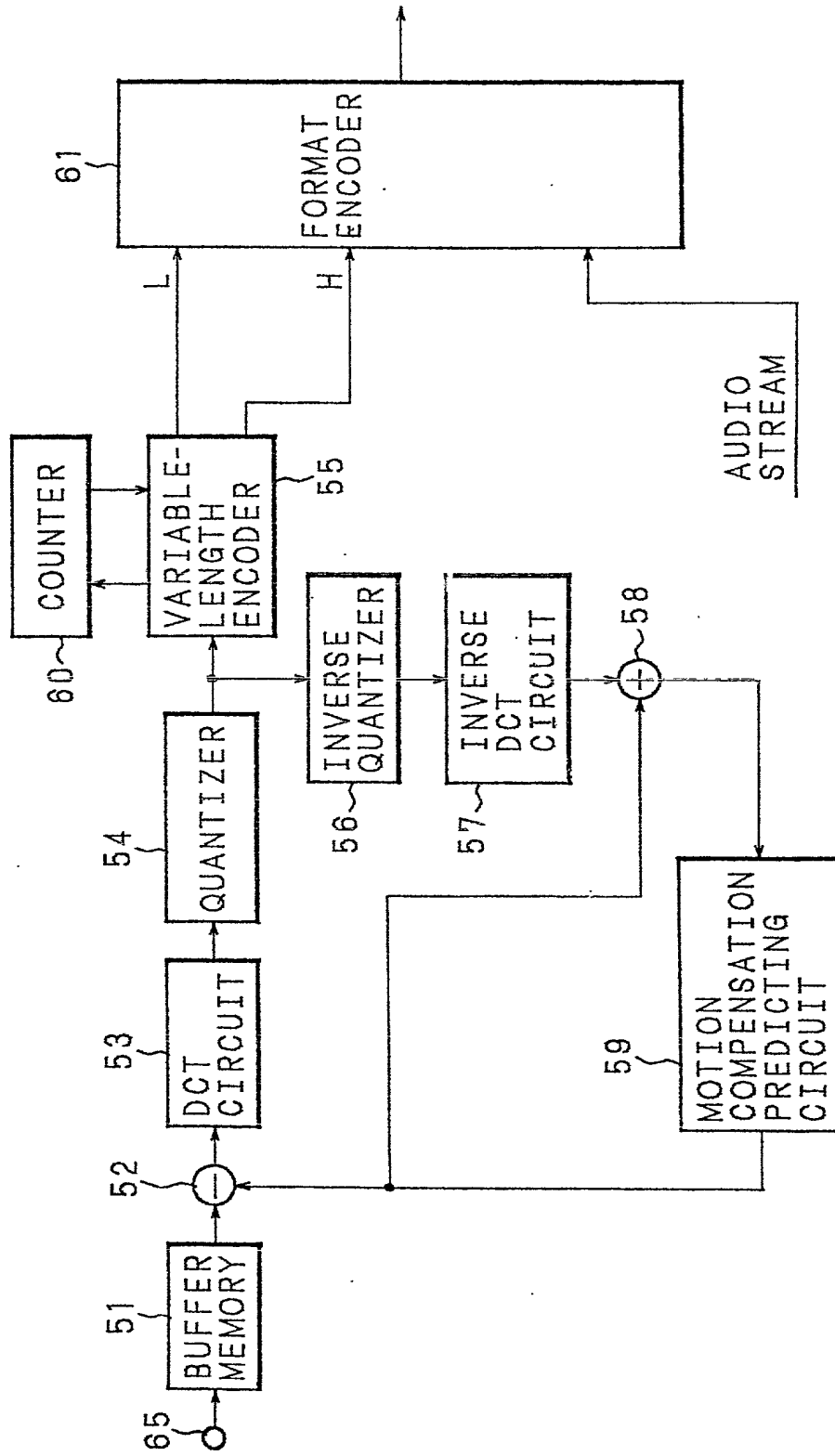


FIG. 38

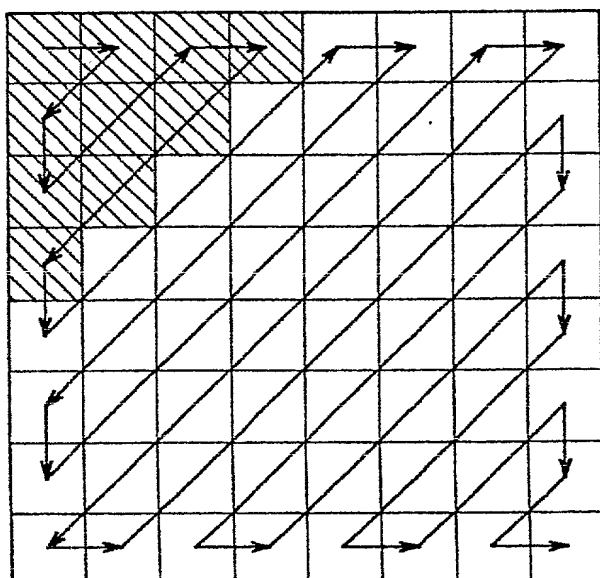


FIG. 39

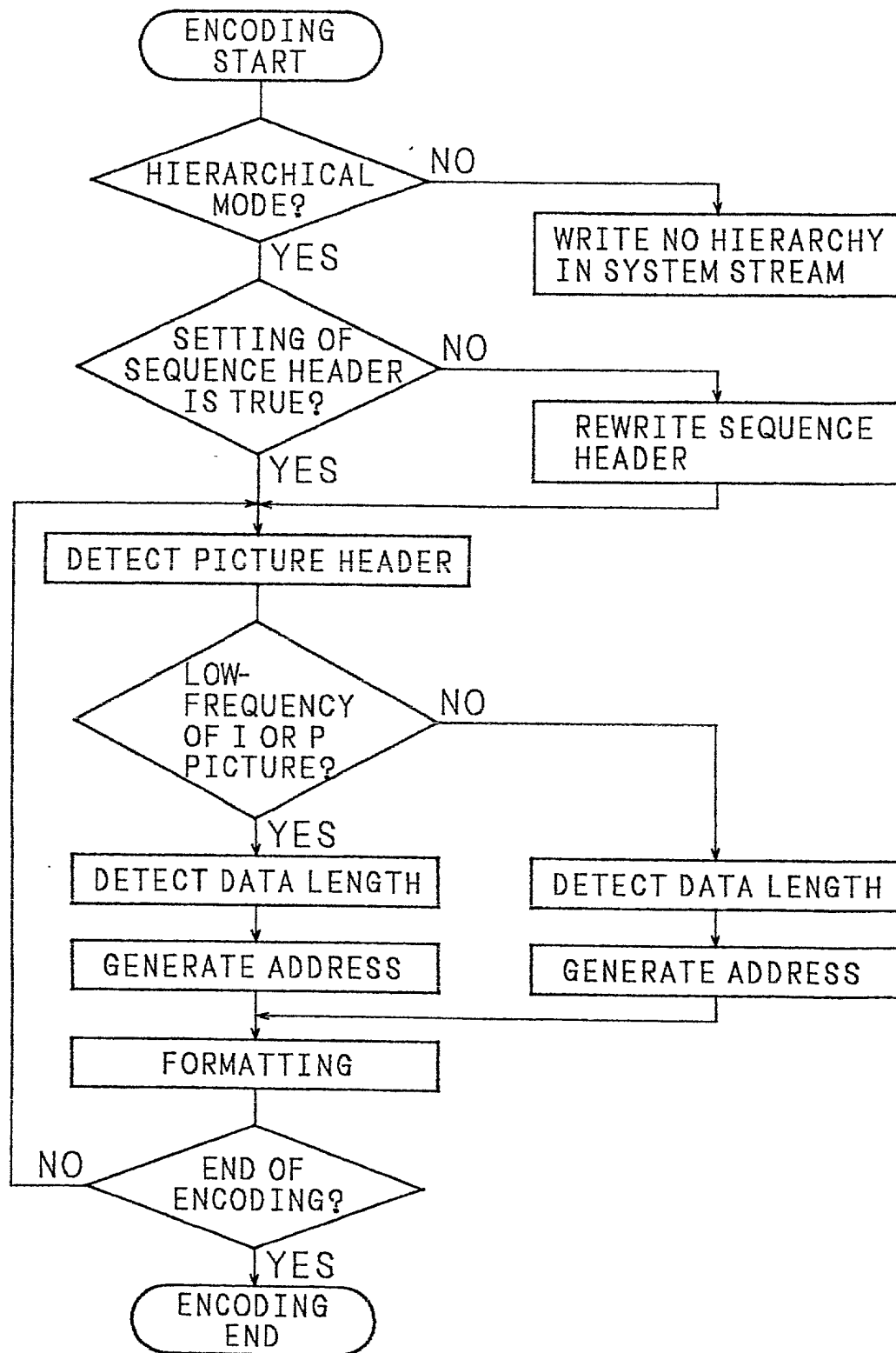


FIG. 40

```

sequence_scalable_extension(){
    extension_start_code_identifier
    scalable_mode
    layer_id
    if(scalable_mode=="spatial scalability"){
        lower_layer_prediction_horizontal_size
        maker_bit
        lower_layer_prediction_vertical_size
        horizontal_subsampling_factor_m
        horizontal_subsampling_factor_n
        vertical_subsampling_factor_m
        vertical_subsampling_factor_n
    }
    if(scalable_mode=="temporal scalability"){
        picture_mux_enable
        if(picture_mux_enable)
            mux_to_progressive_sequence
        picture_mux_order
        picture_mux_factor
    }
    next_start_code()
}

slice(){
    slice_start_code
    if(vertical_size>2800)
        slice_vertical_position_extension
    if(<sequence_scalable_extension() is present in the bitstream>)
        if(scalable_mode=="data partitioning")
            priority_breakpoint
    quantiser_scale_code
    if(nextbits()=="1"){
        intra_slice_flag
        intra_slice
        reserved_bits
        while(nextbits()=="1"){
            extra_bit_slice
            extra_information_slice
        }
    }
    extra_bit_slice
    do{
        macroblock()
    }while(nextbits()!='000 0000 0000 0000 0000 0000')
    next_start_code()
}

```

FIG. 41A
BITSTREAM IN
NO HIERARCHY

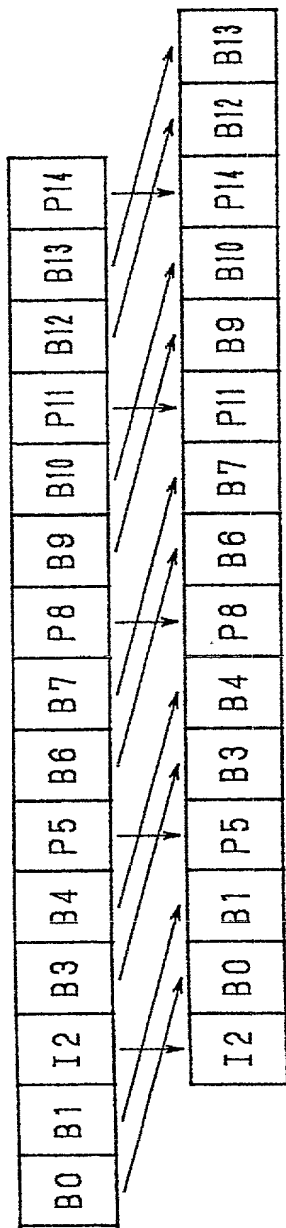


FIG. 41B
BITSTREAM IN
HIERARCHY

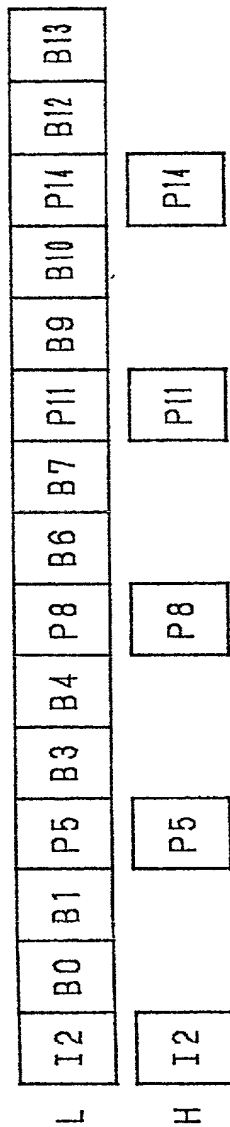


FIG. 41C
REARRANGED BITSTREAM
IN CONSIDERATION OF
SPECIAL PLAYBACK

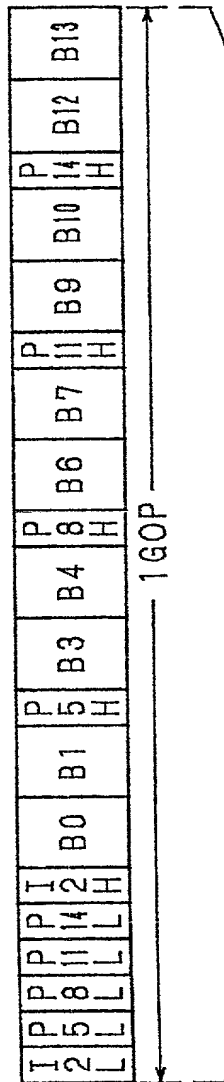
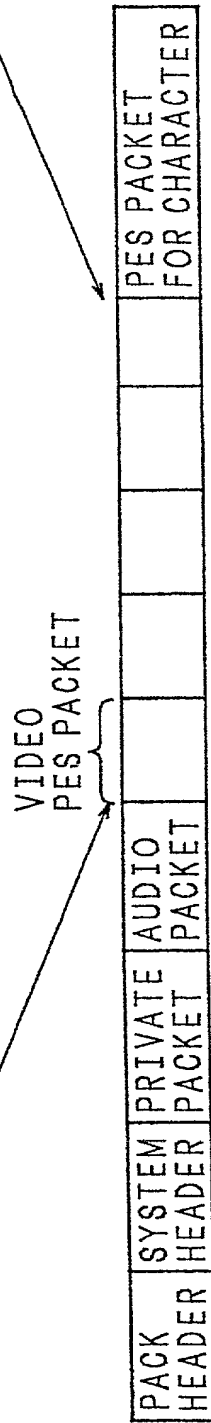


FIG. 41D
PROGRAM
STREAM
FOR DISC
RECORDING



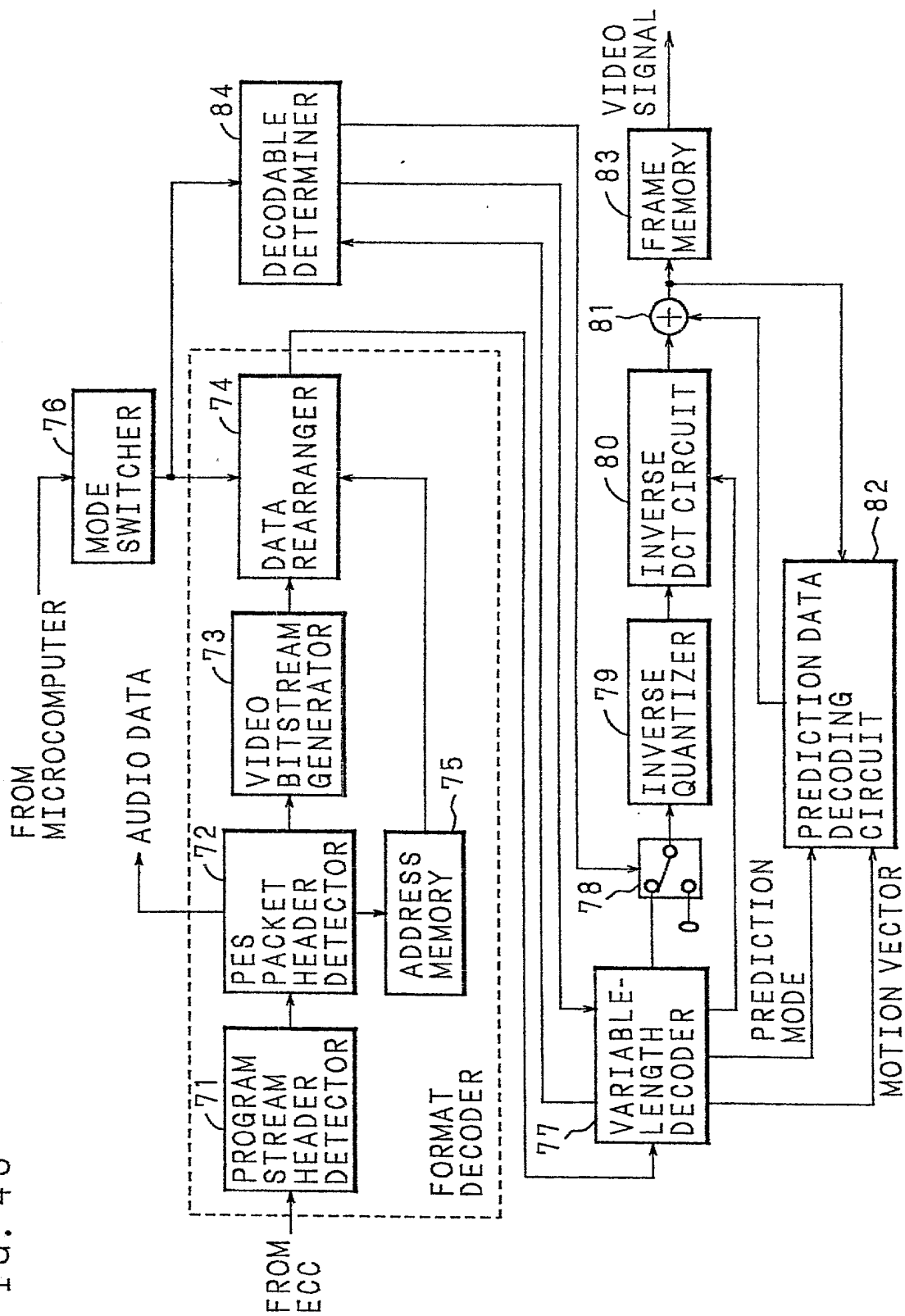
[illegible]

FIG. 44

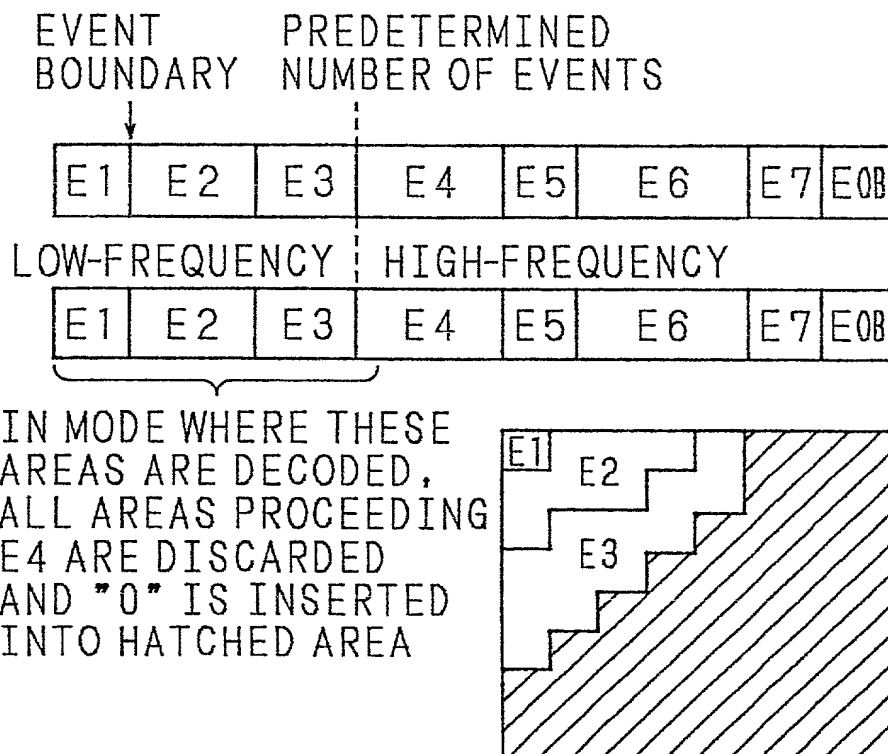


FIG. 45

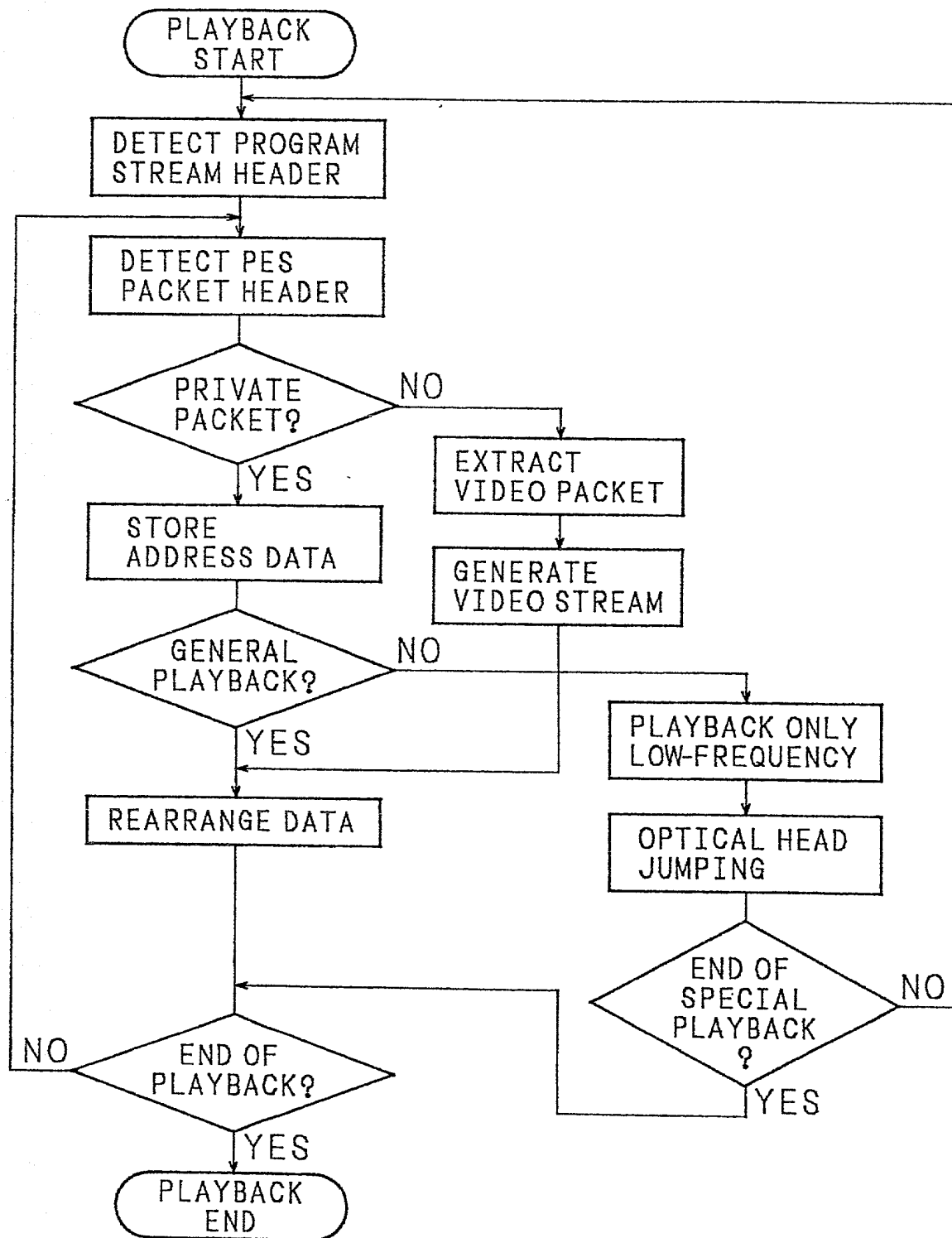


FIG. 46

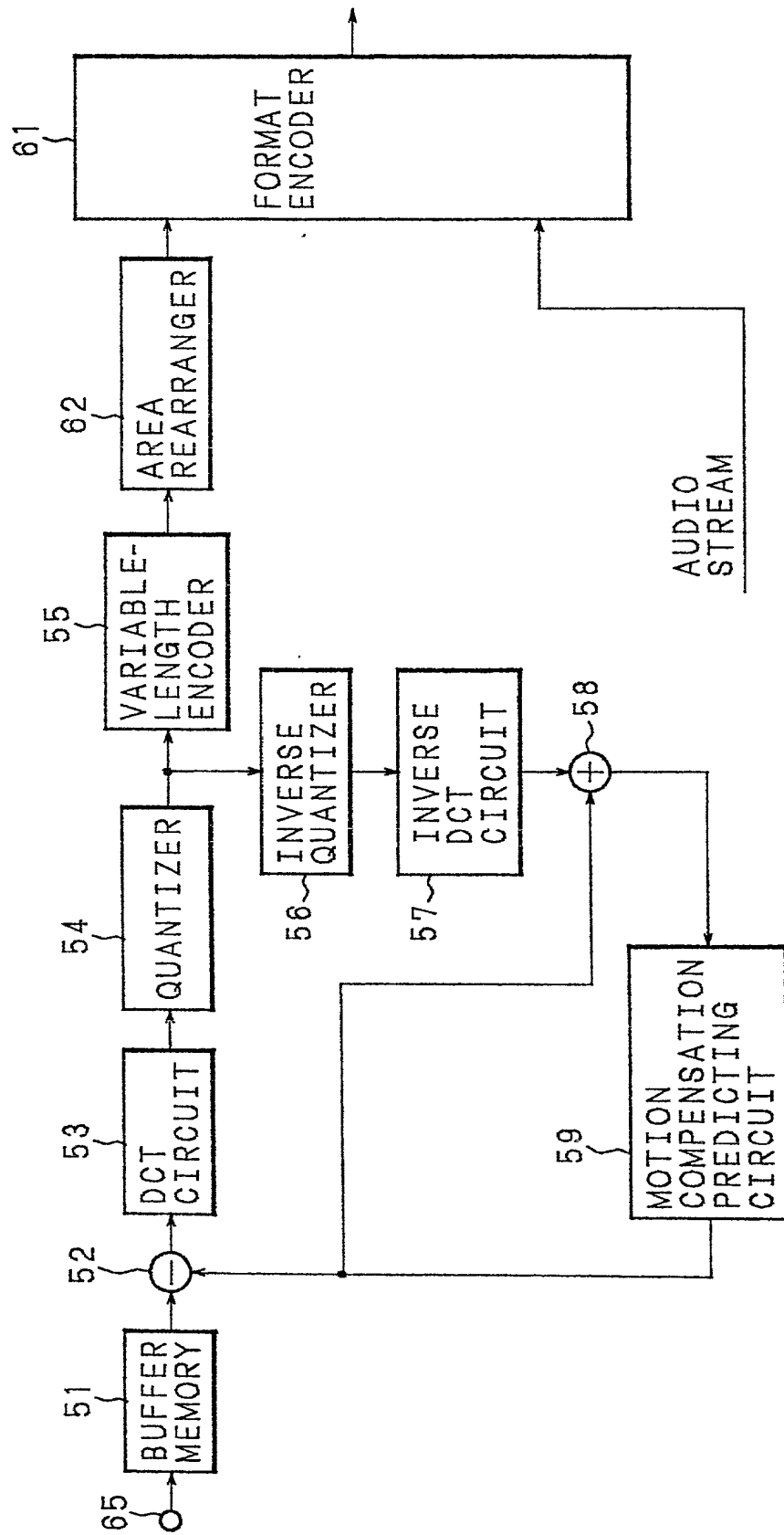


FIG. 47

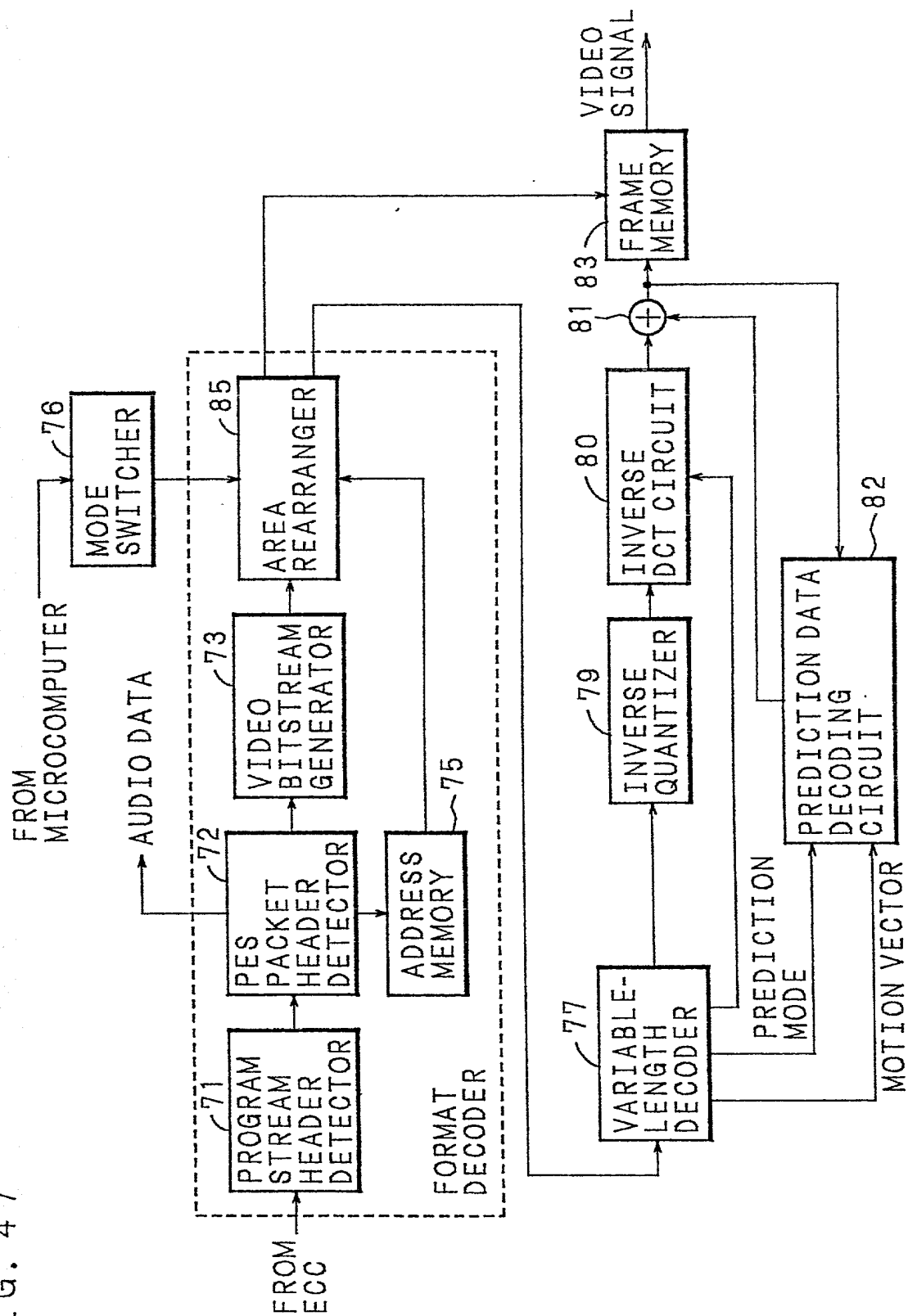


FIG. 48

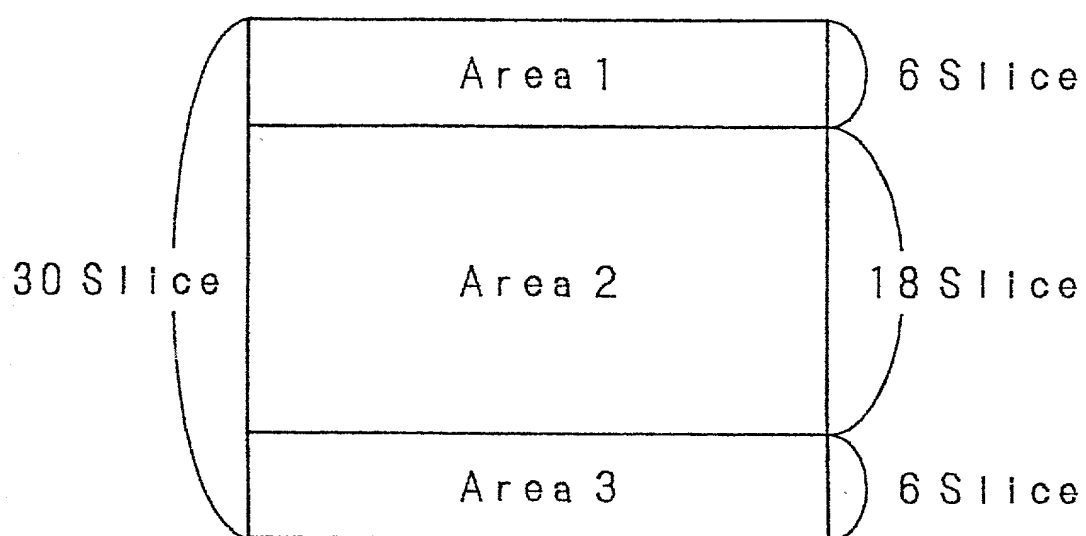


FIG. 49

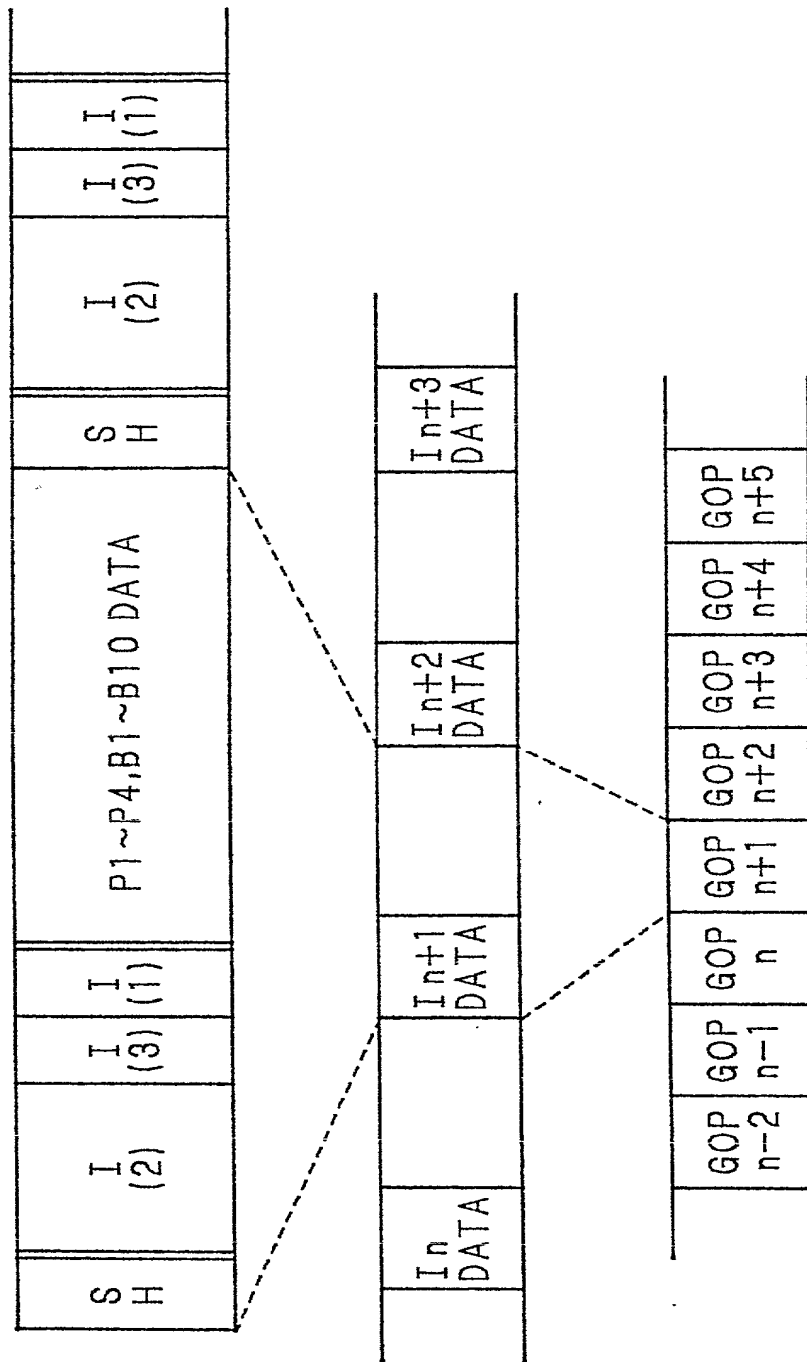


FIG. 50

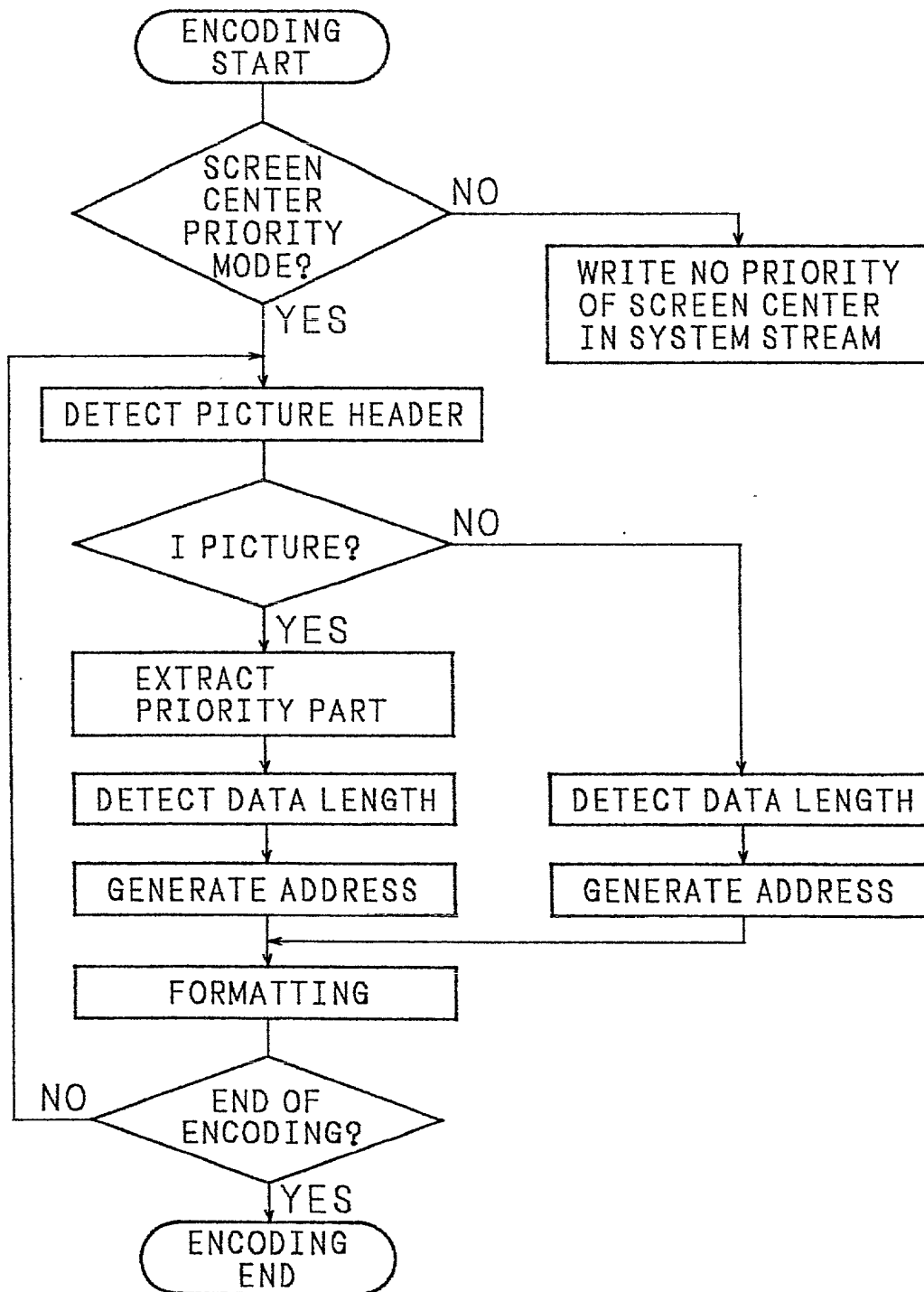


FIG. 51

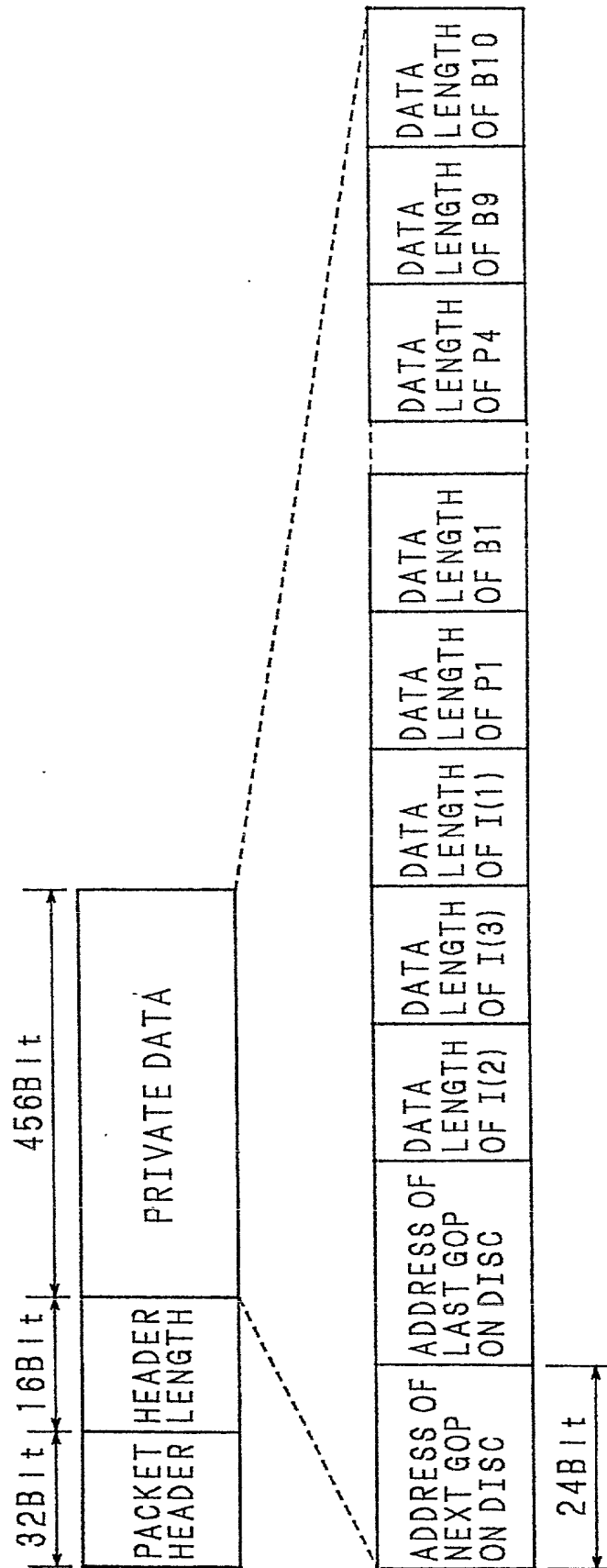


FIG. 52

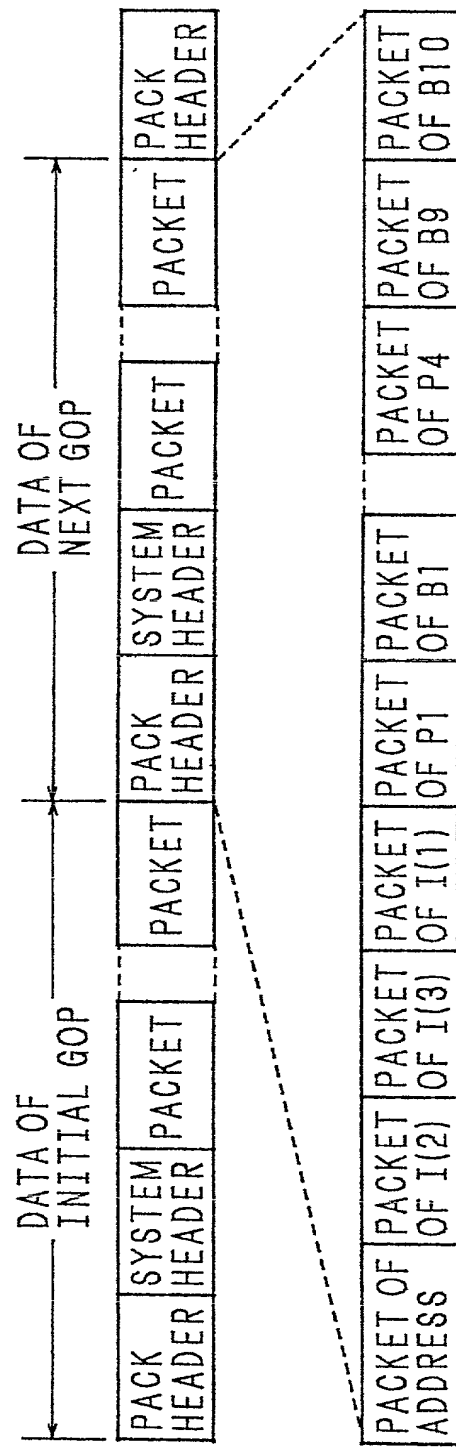


FIG. 53A FIG. 53B FIG. 53C FIG. 53D FIG. 53E

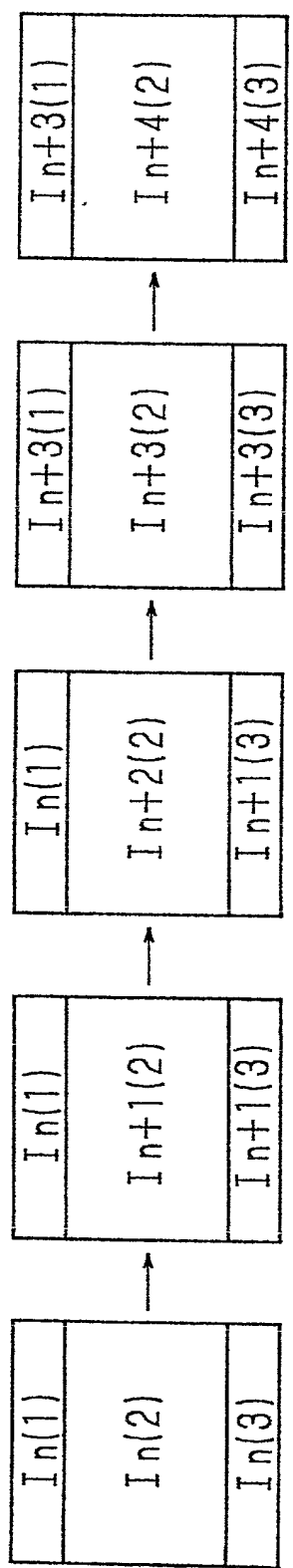
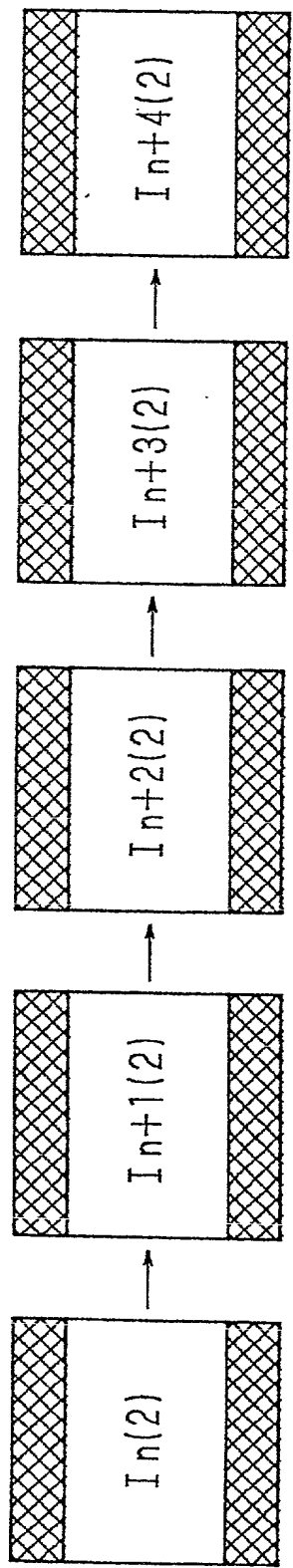


FIG. 54A FIG. 54B FIG. 54C FIG. 54D FIG. 54E



 : MASK DATA

FIG. 55A

FIG. 55B

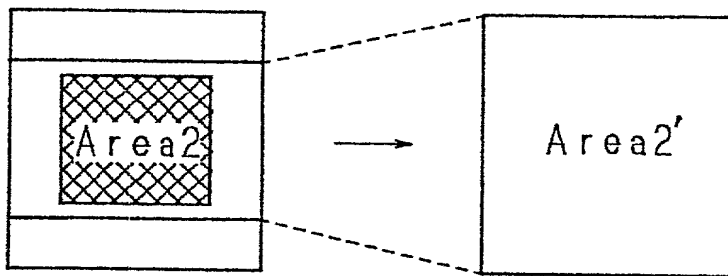


FIG. 56

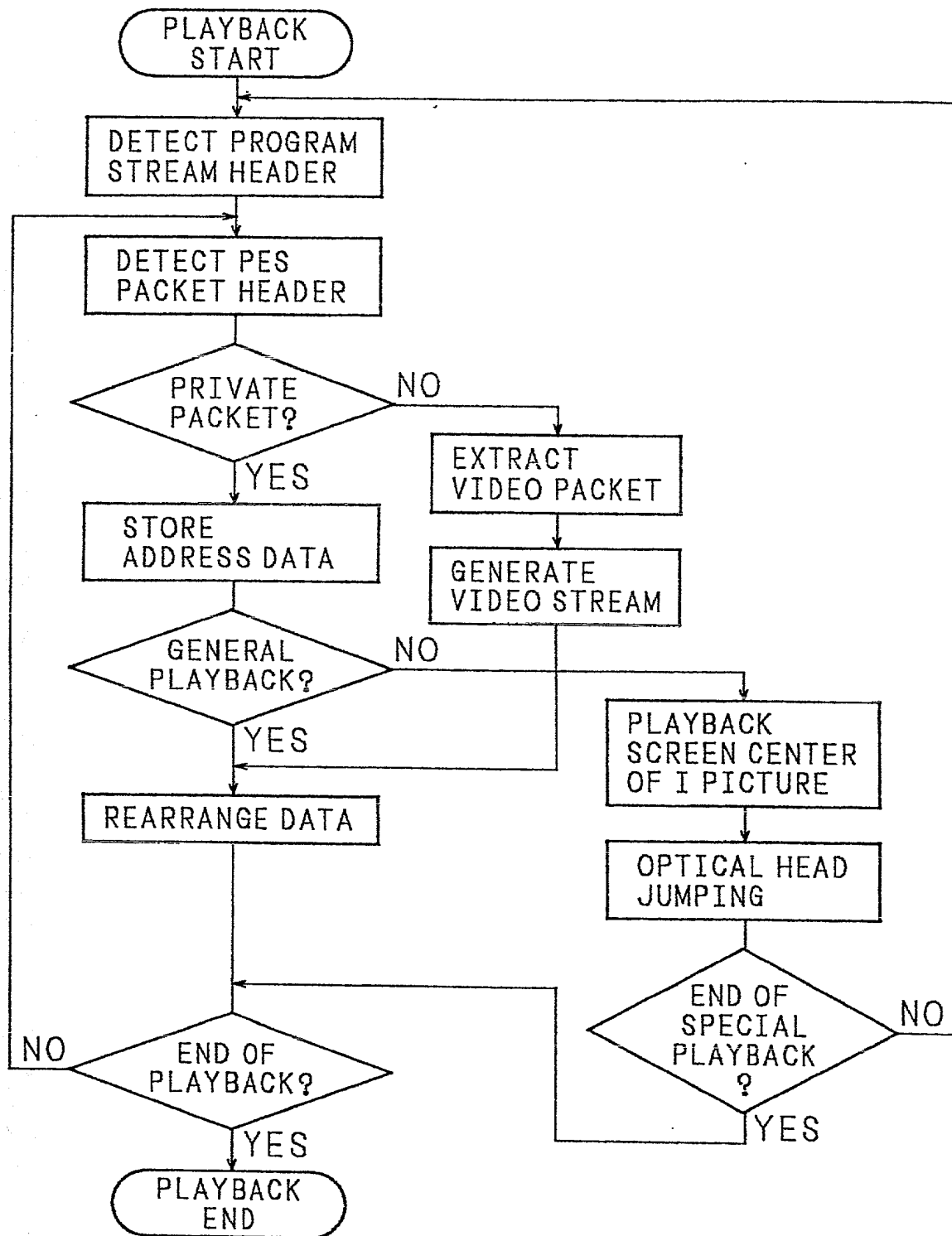


FIG. 57

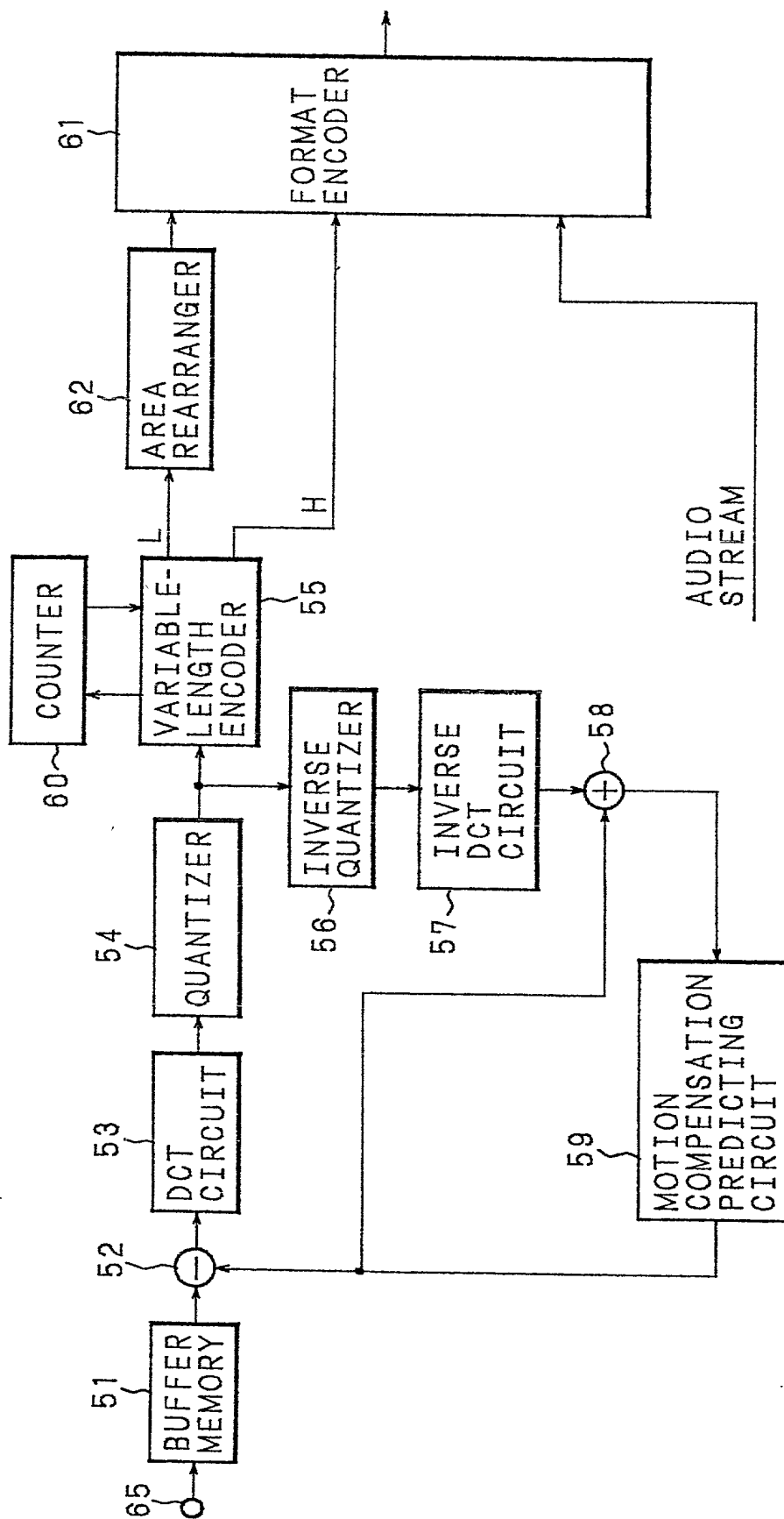
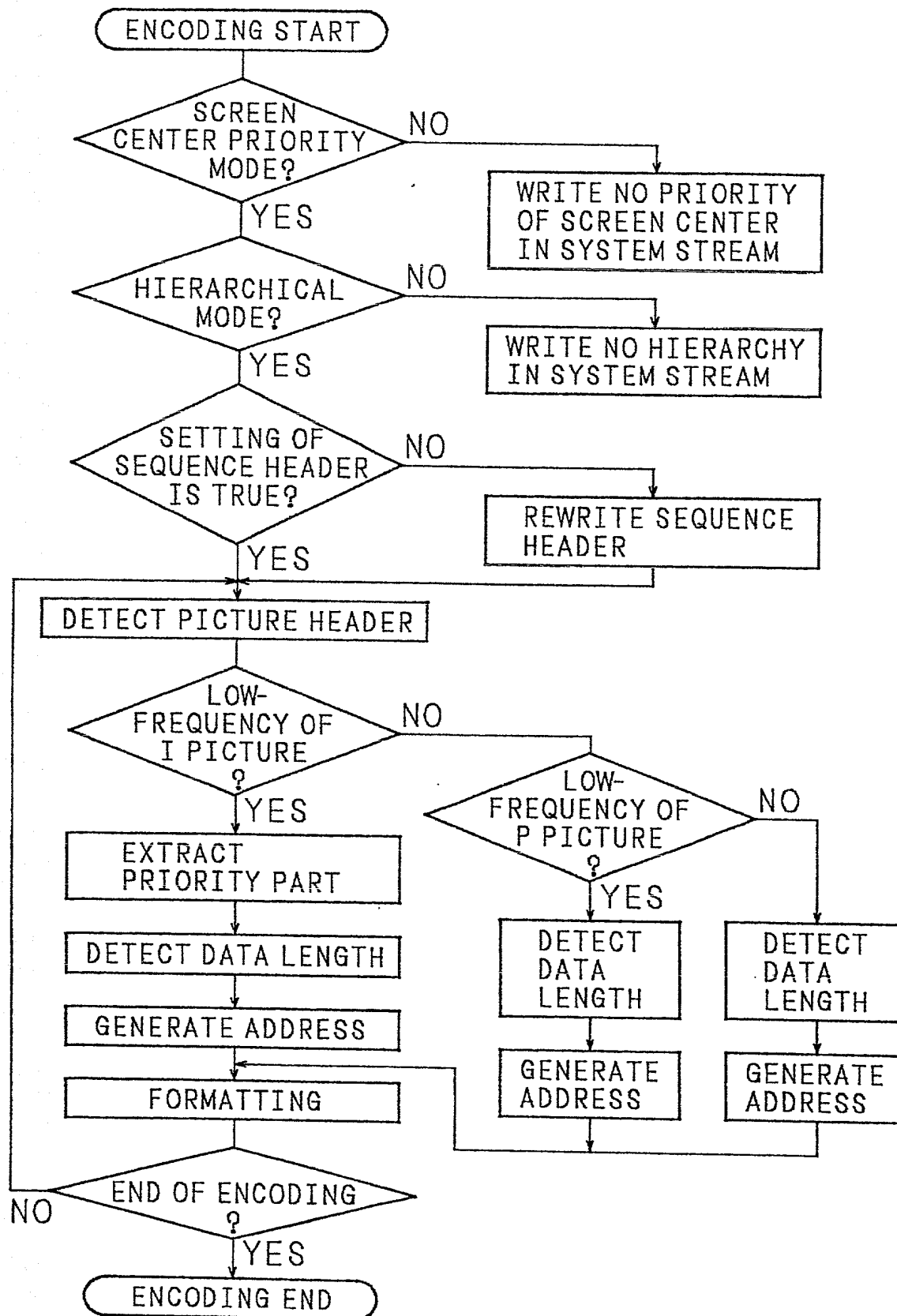


FIG. 58



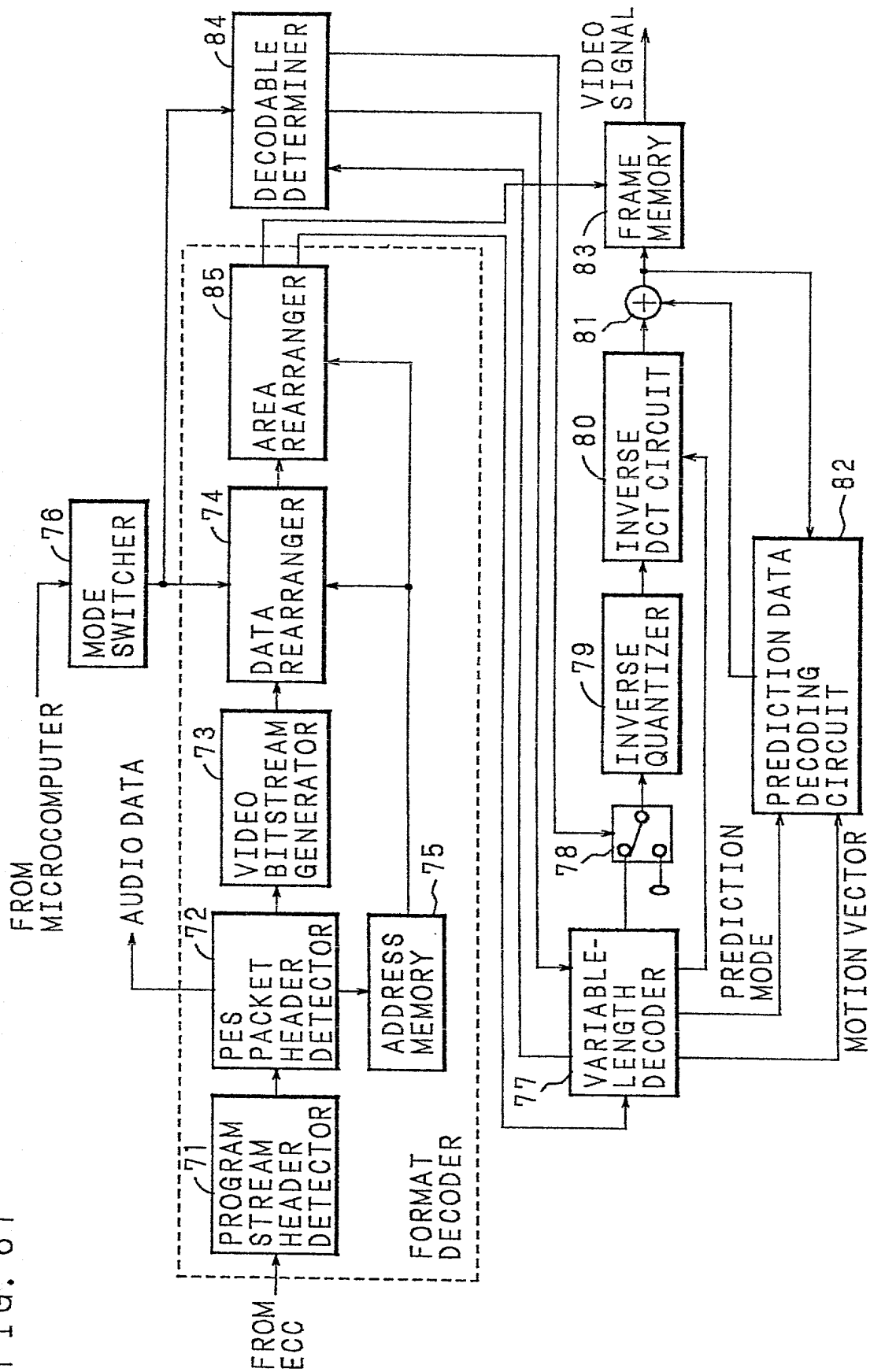
[illegible]

FIG. 62

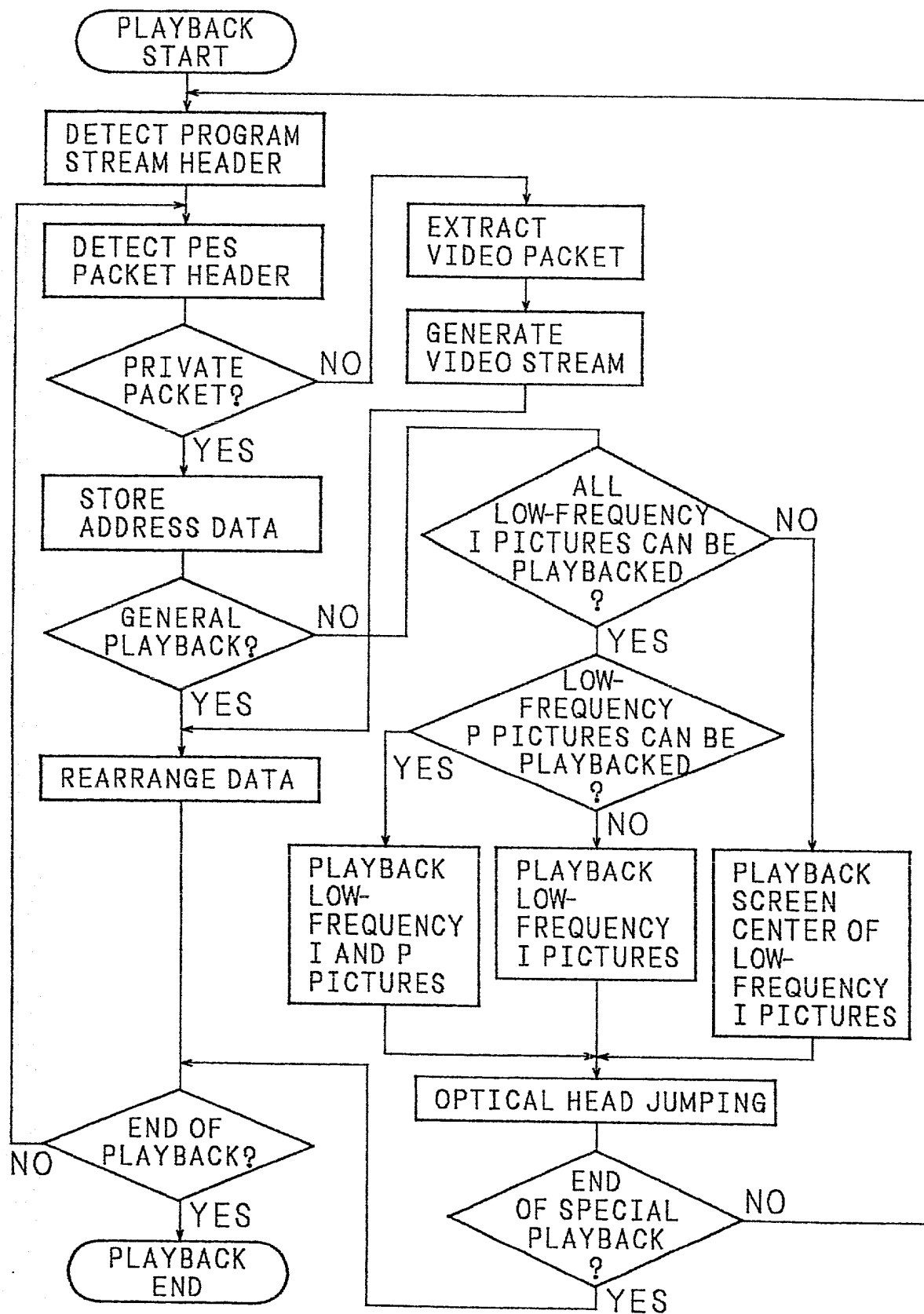


FIG. 63

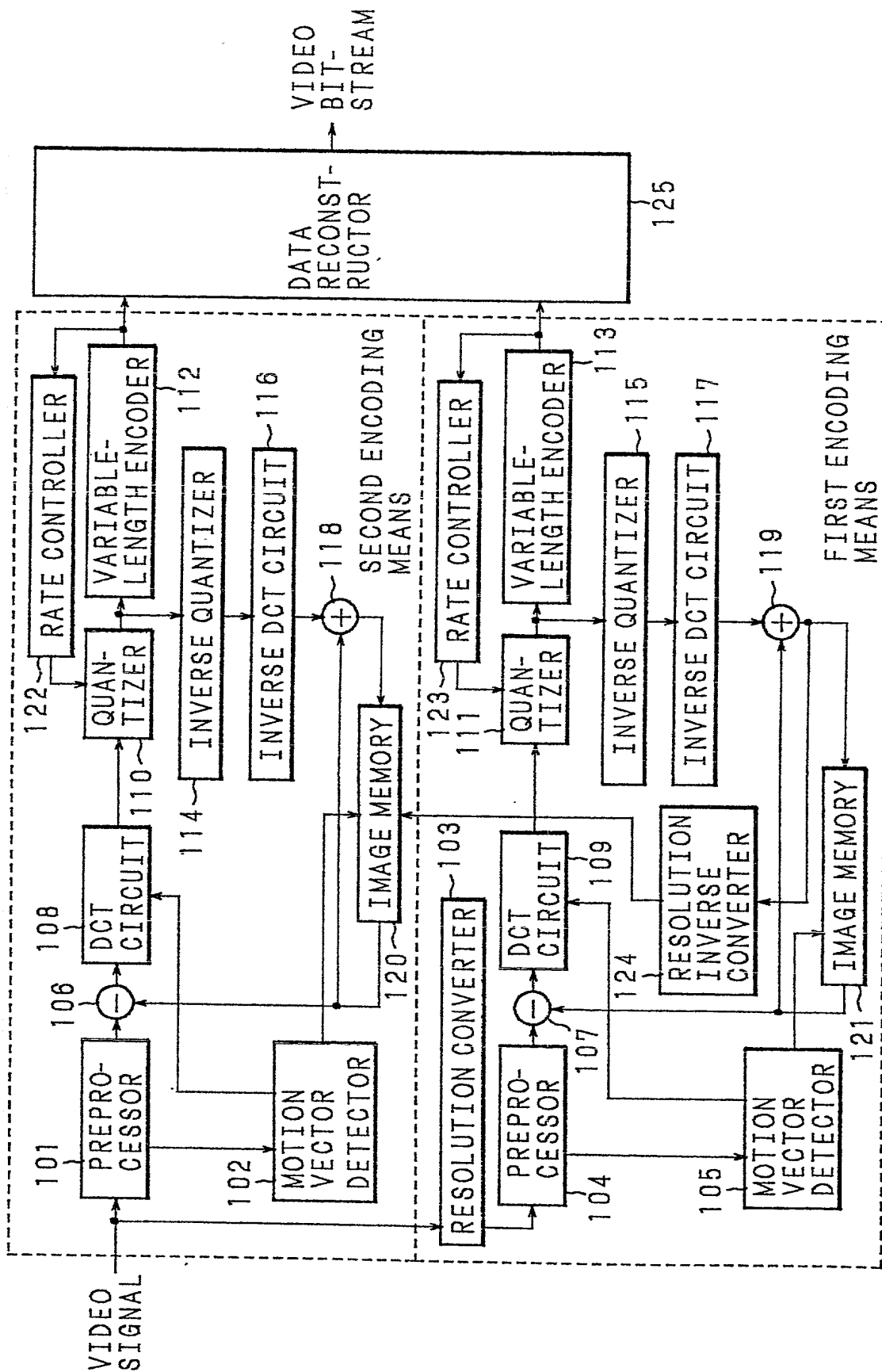


FIG. 64

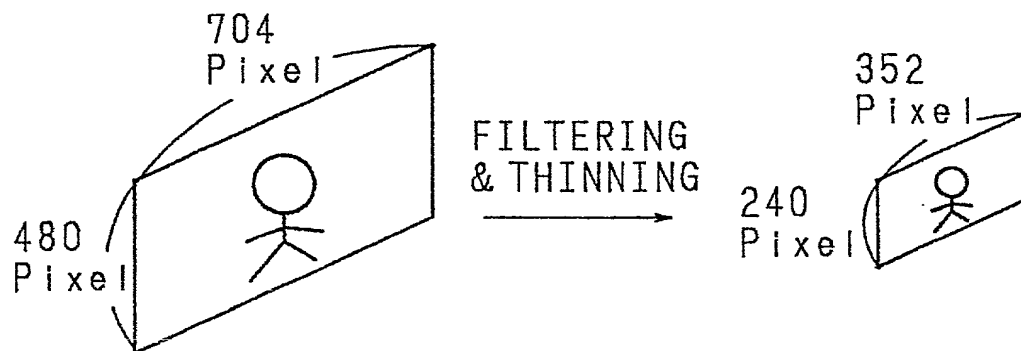


FIG. 65

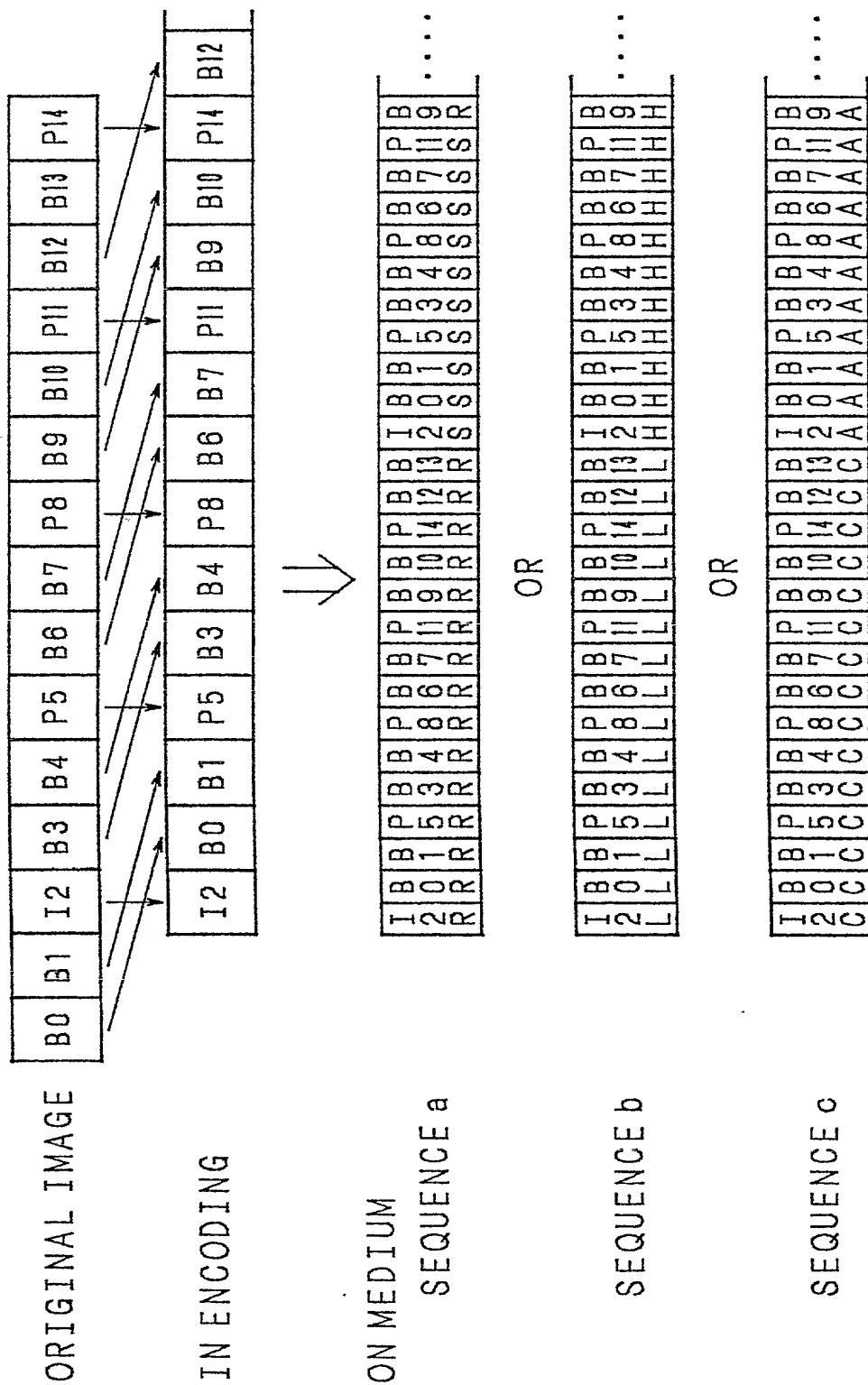


FIG. 66

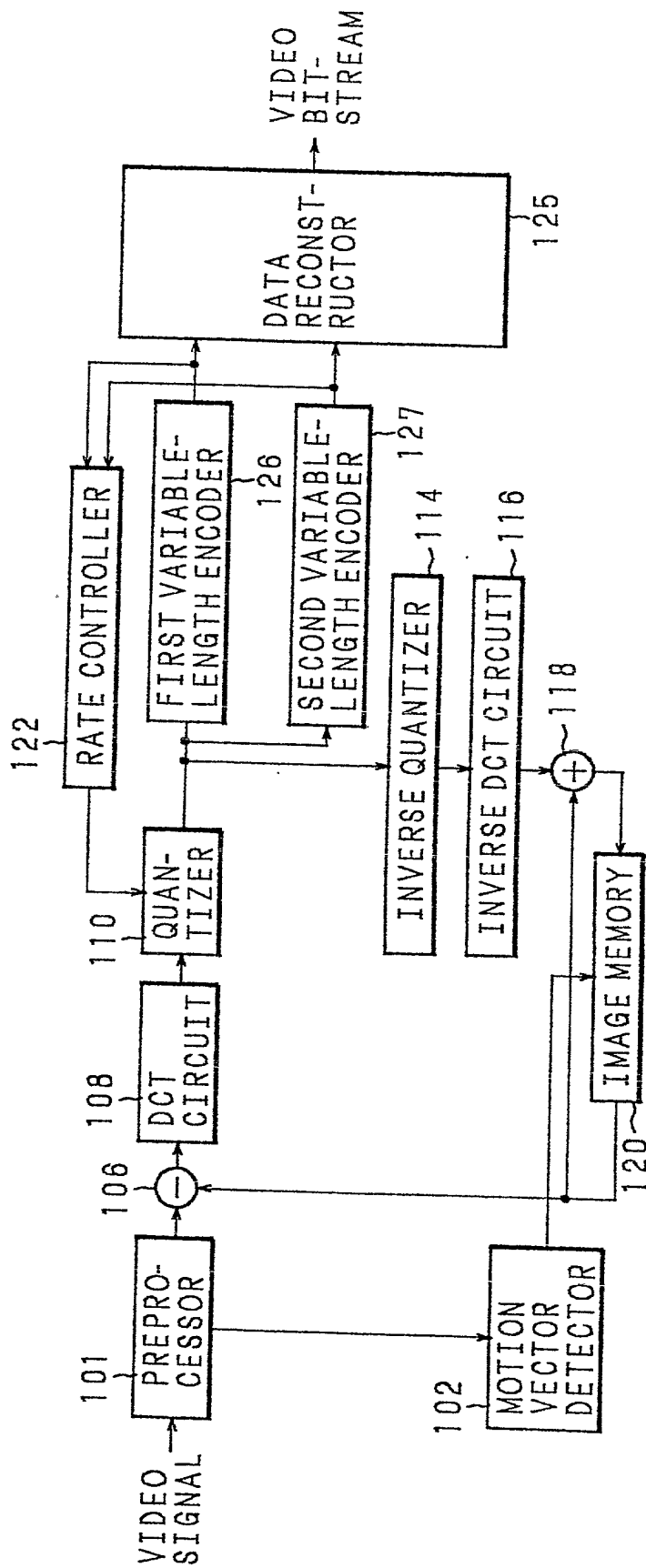
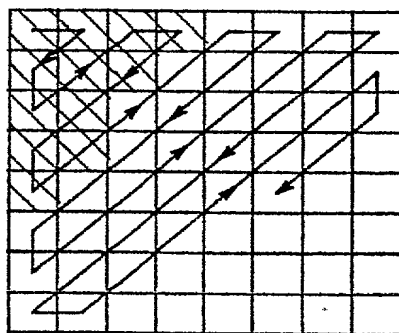


FIG. 67



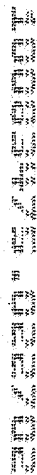
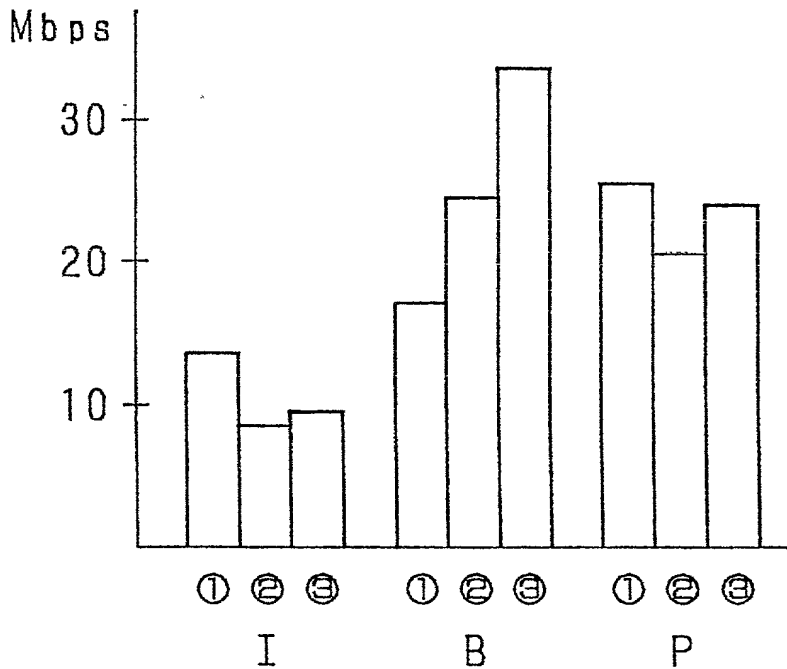
[illegible]

FIG. 69

N=15 (NUMBER OF PICTURES IN GOP)
M=3 (CYCLE OF I,P PICTURE)
AVERAGE RATE 4Mbps
RATE IN
PICTURES
COLLECTION



AVERAGE AVERAGE AVERAGE
9.4 Mbps 24.5 Mbps 22.6 Mbps

①: SCENE ①
②: SCENE ②
③: SCENE ③

FIG. 70

ORIGINAL IMAGE

B0	B1	I2	B3	B4	P5	B6	B7	P8	B9	B10	P11	B12	B13	P14	B0
----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	----

SEQUENCE^a
ENCODE DATA

I	I	2	B0	B1	P	5	B3	B4	P	8	B9	B10	P	14	B12
R	2	S			P	R			P	R			P	R	

AFTER DATA
RECONSTRUCTION

I	P	P	P	I	P	P	P	P	P	P	P	P	P	P	P
2	5	8	11	14	2	5	8	11	14	2	5	8	11	14	2
R	R	R	R	R	S	S	S	S	S	B0	B1	B3	B4	B6	B12

CORE AREA

SEQUENCE^b
ENCODE DATA

I	I	2	B0	B1	P	5	B3	B4	P	8	B9	B10	P	14	B12
L	2	L			P	L			P	L			P	L	

AFTER DATA
RECONSTRUCTION

I	P	P	P	I	P	P	P	P	P	P	P	P	P	P	P
2	5	8	11	14	2	5	8	11	14	2	5	8	11	14	2
L	L	L	L	L	H	H	H	H	H	B0	B1	B3	B4	B6	B12

CORE AREA

SEQUENCE^c
ENCODE DATA

I	I	2	B0	B1	P	5	B3	B4	P	8	B9	B10	P	14	B12
C	2	C			P	C			P	C			P	C	

AFTER DATA
RECONSTRUCTION

I	P	P	P	I	P	P	P	P	P	P	P	P	P	P	P
2	5	8	11	14	2	5	8	11	14	2	5	8	11	14	2
C	C	C	C	C	A	A	A	A	A	B0	B1	B3	B4	B6	B12

CORE AREA

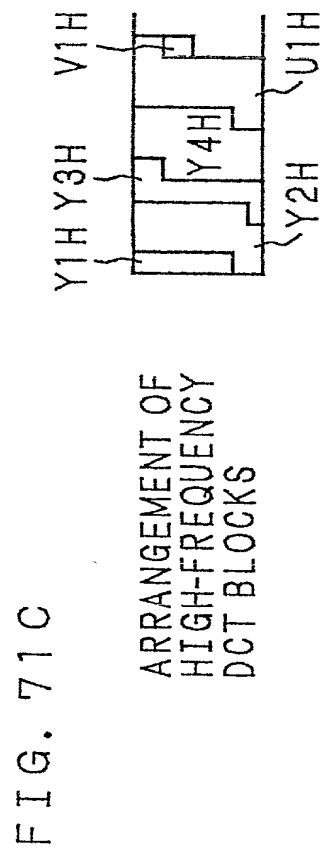
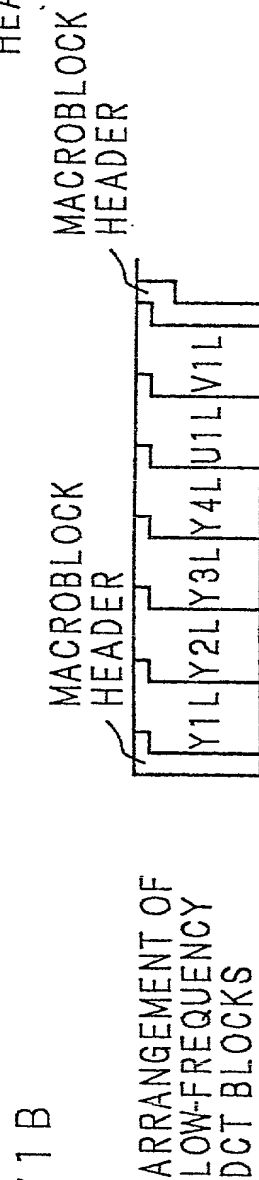
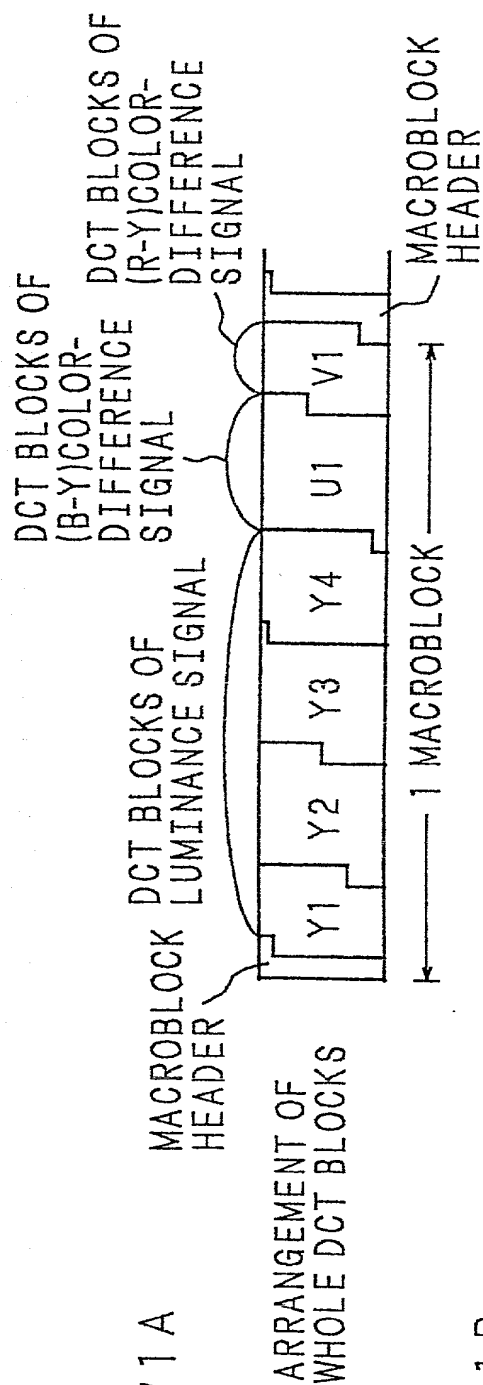


FIG. 71D

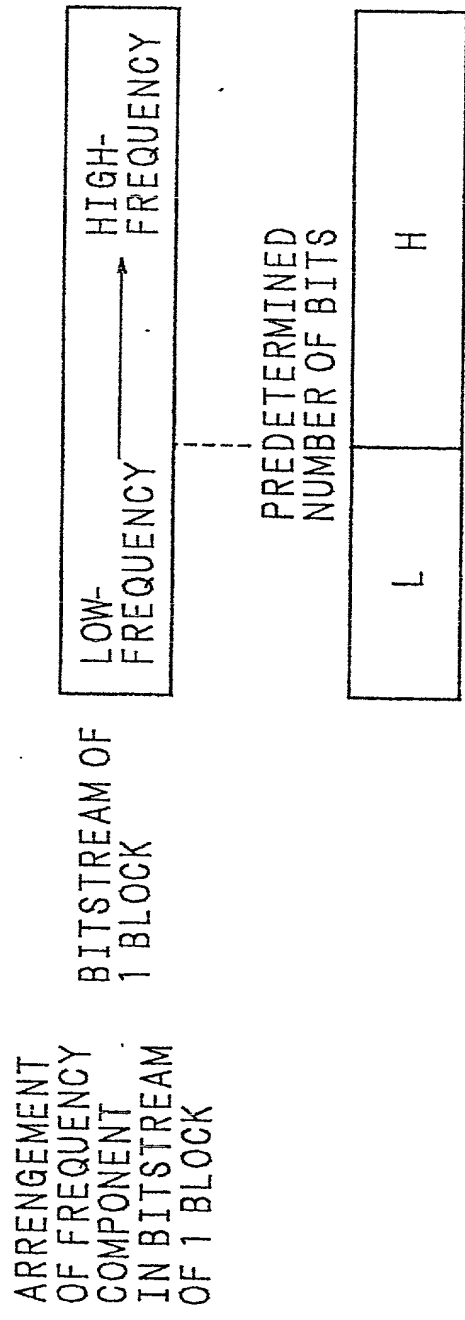


FIG. 72A

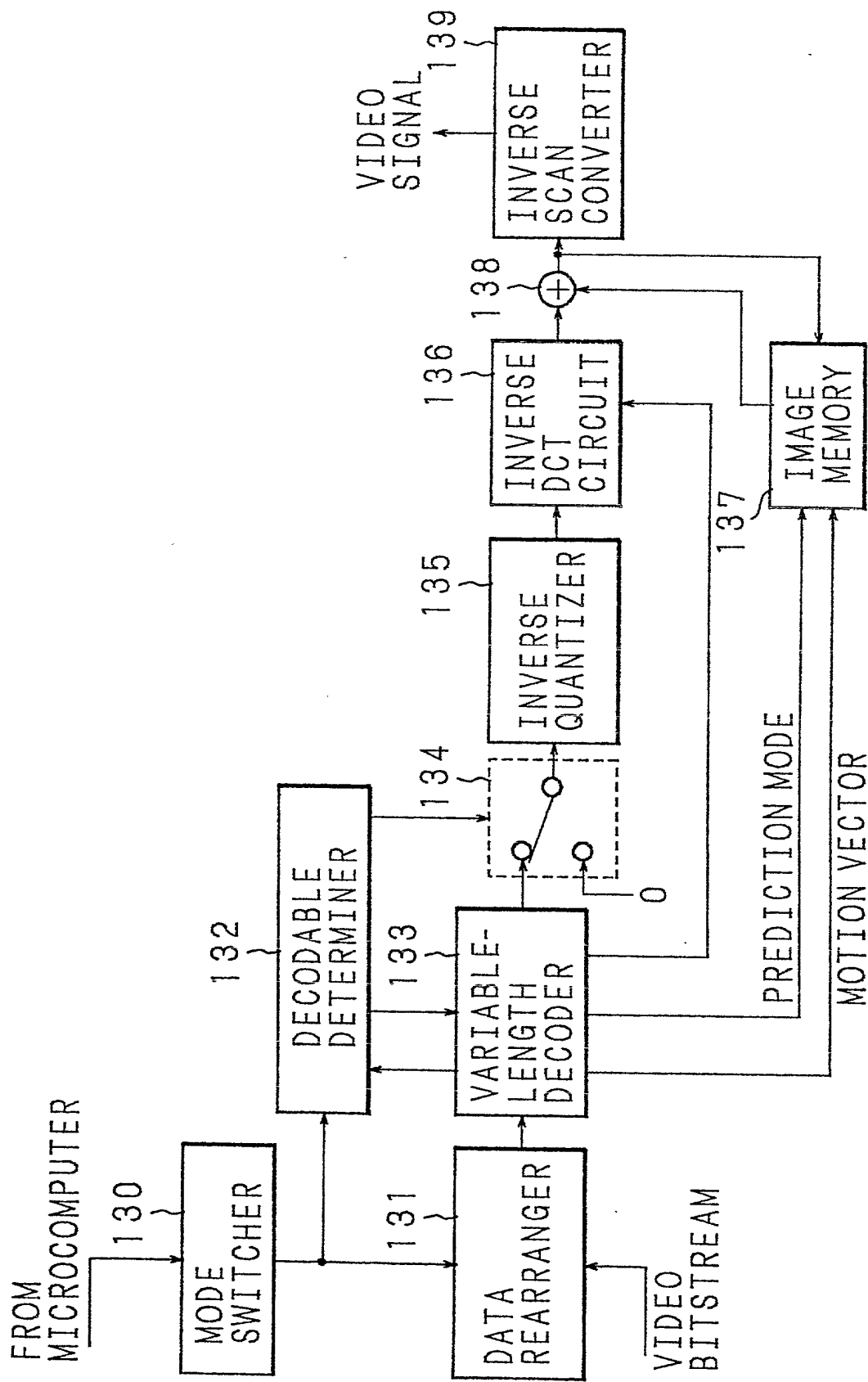
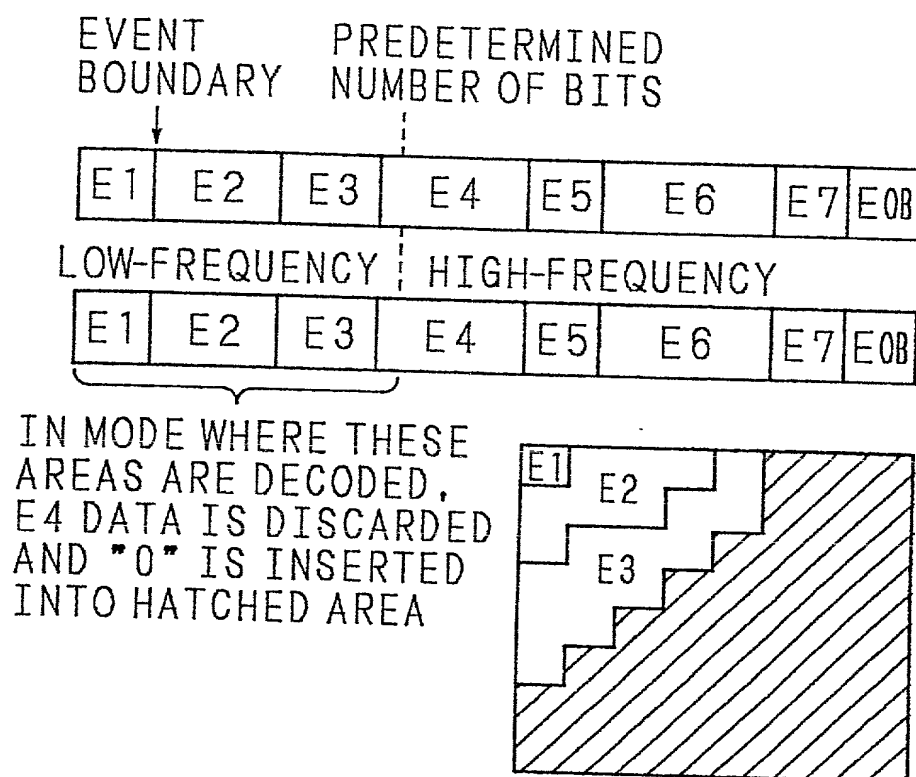


FIG. 72B



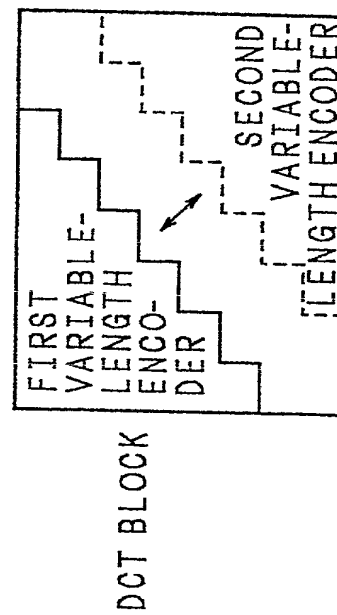
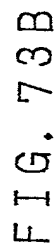
[illegible]

FIG. 74

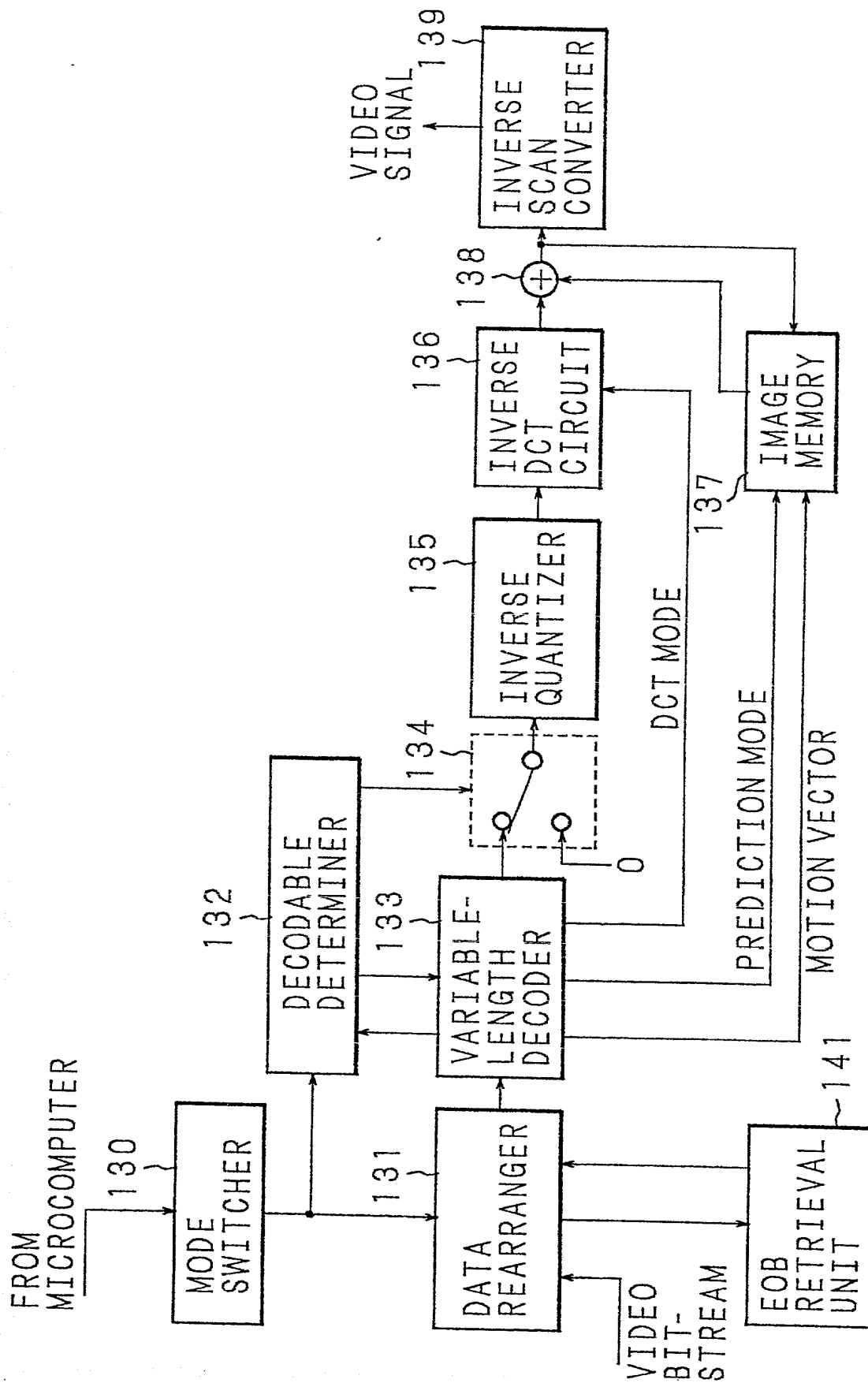


FIG. 75

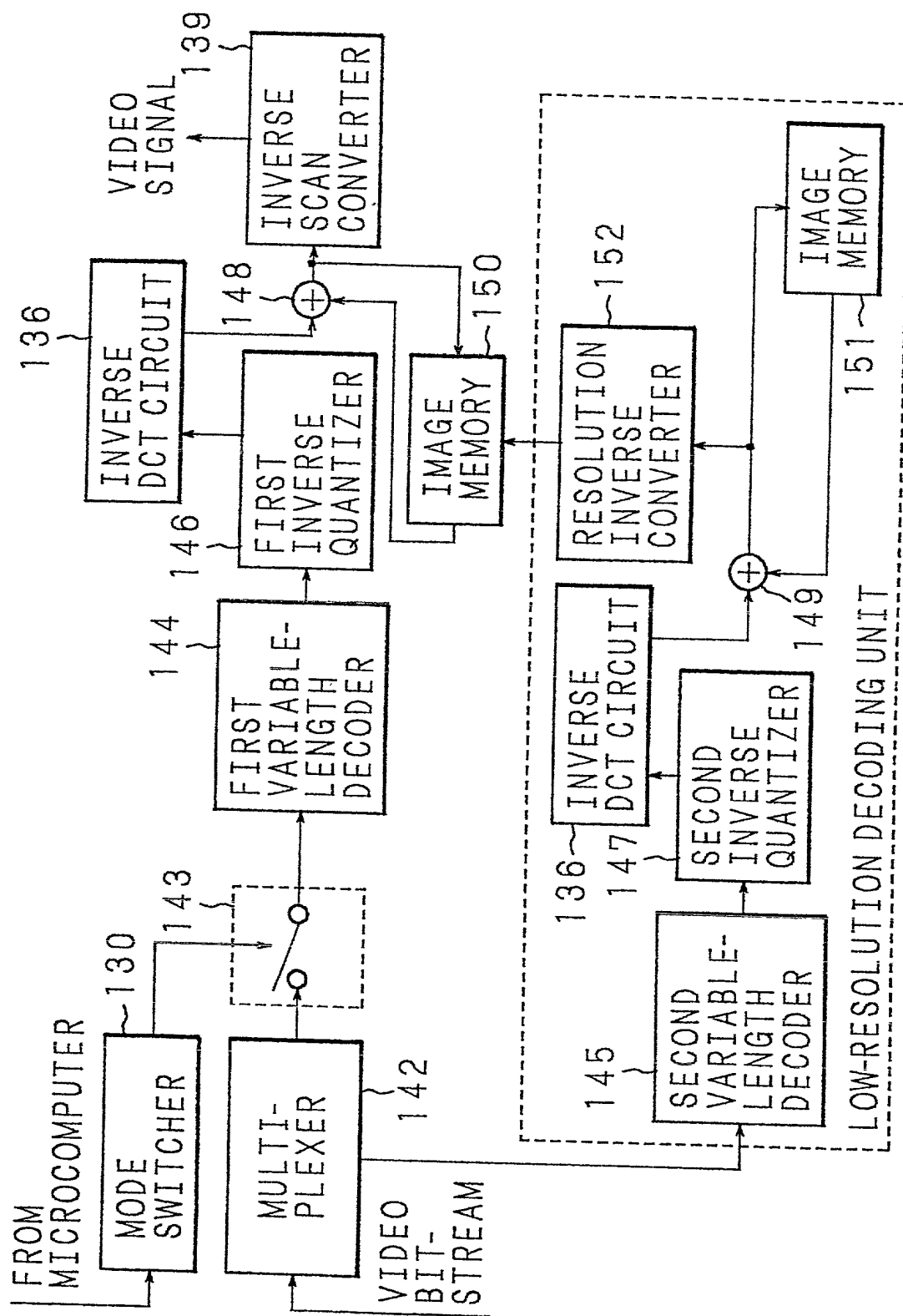


FIG. 76

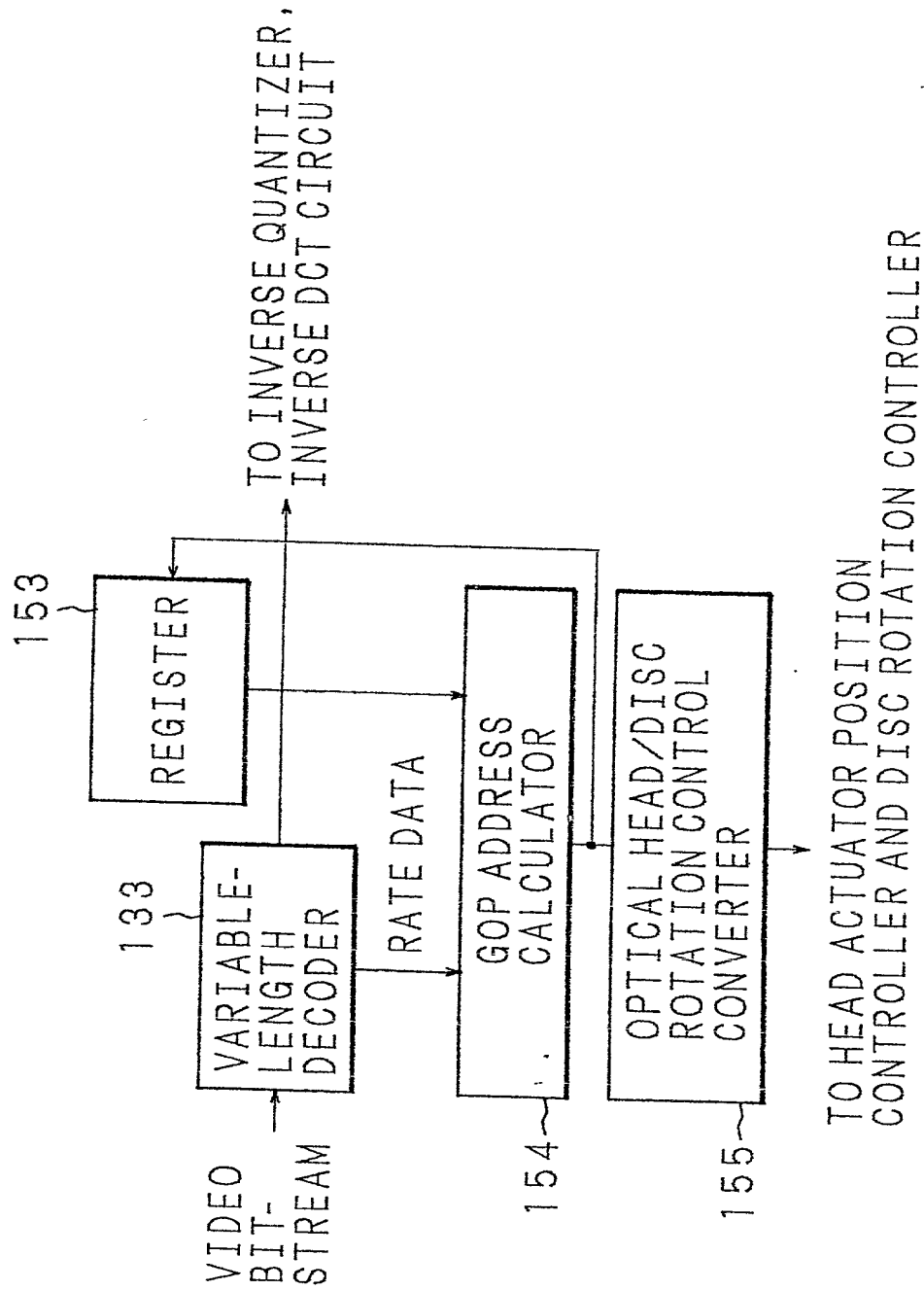
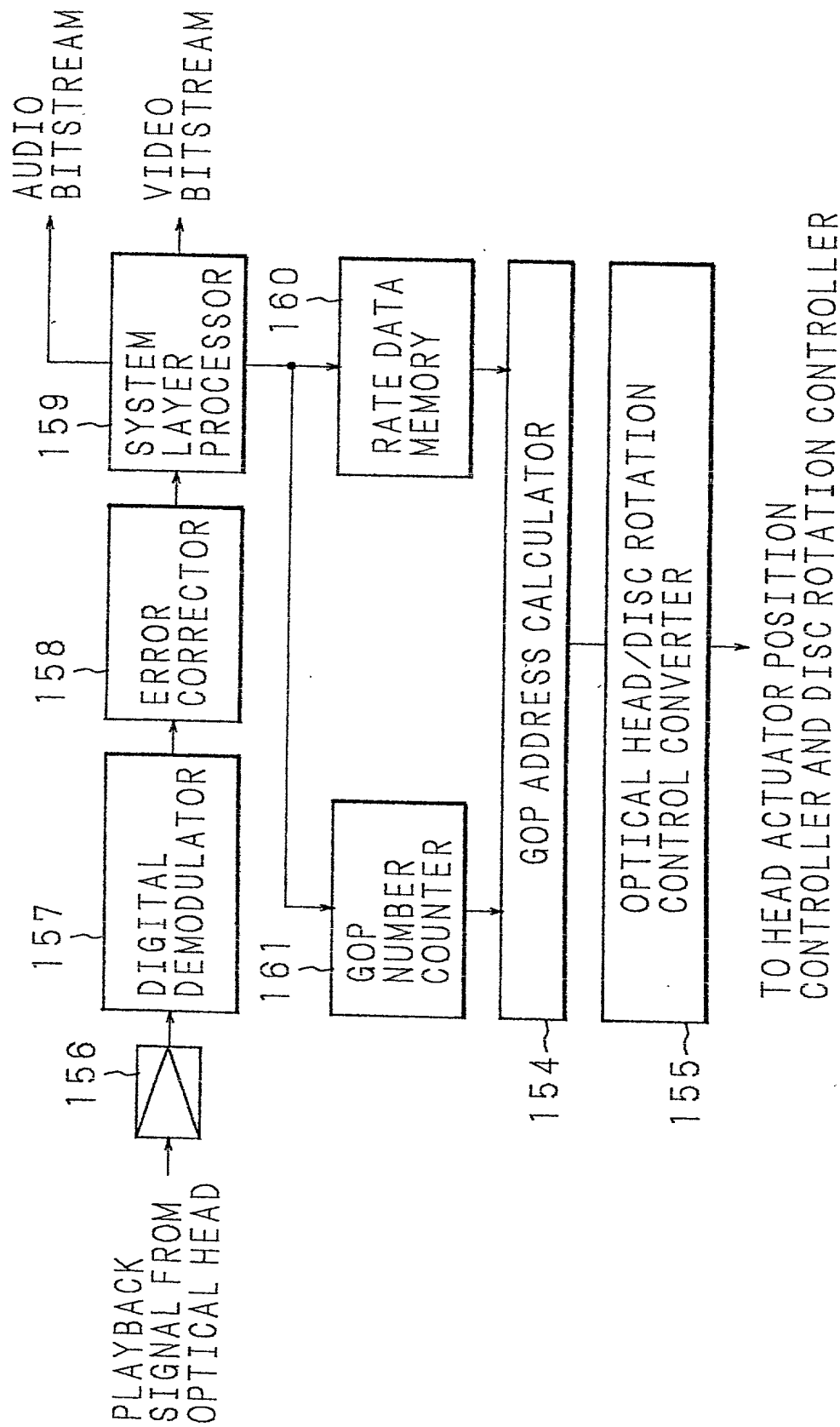


FIG. 77



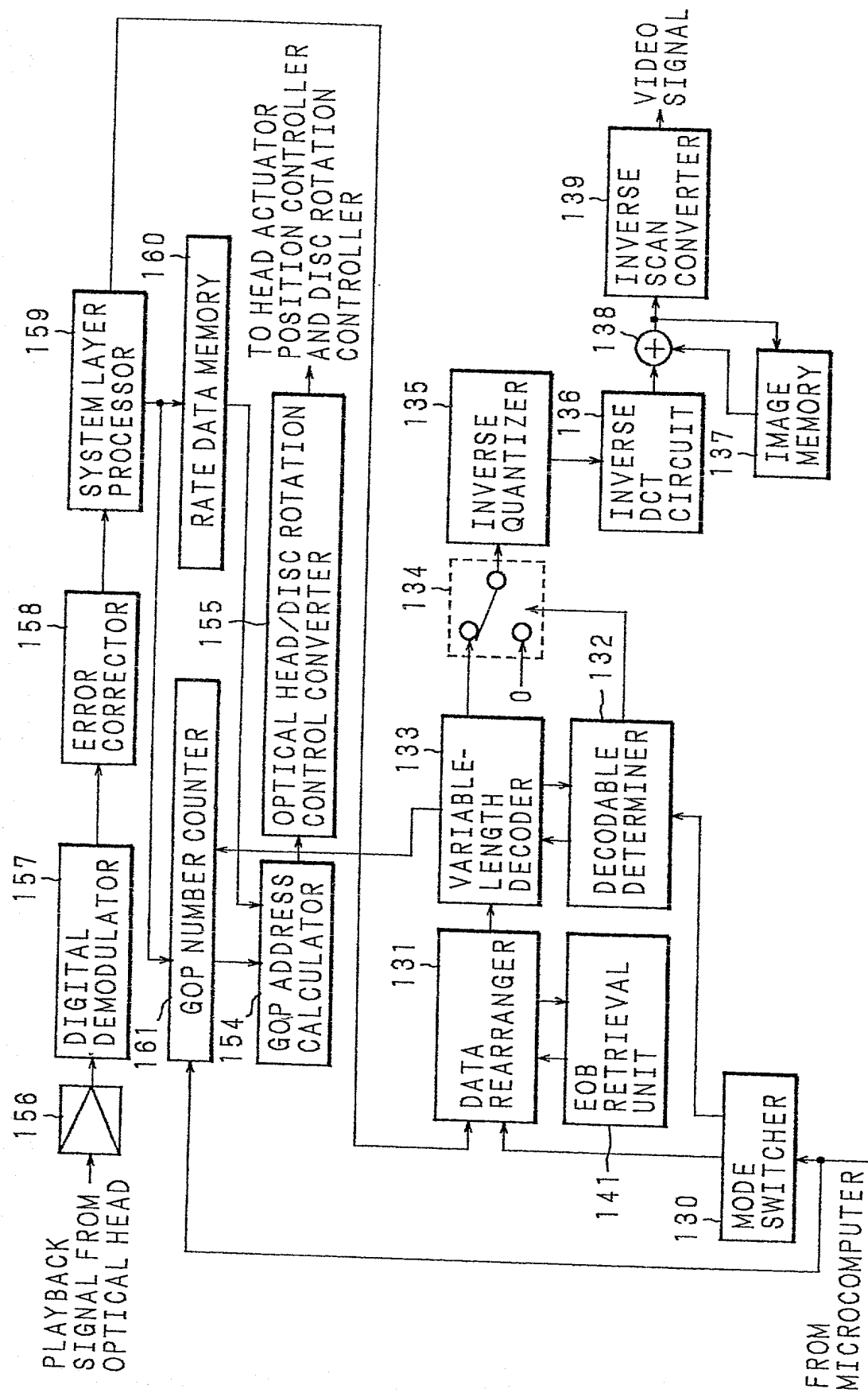
[illegible]

FIG. 79

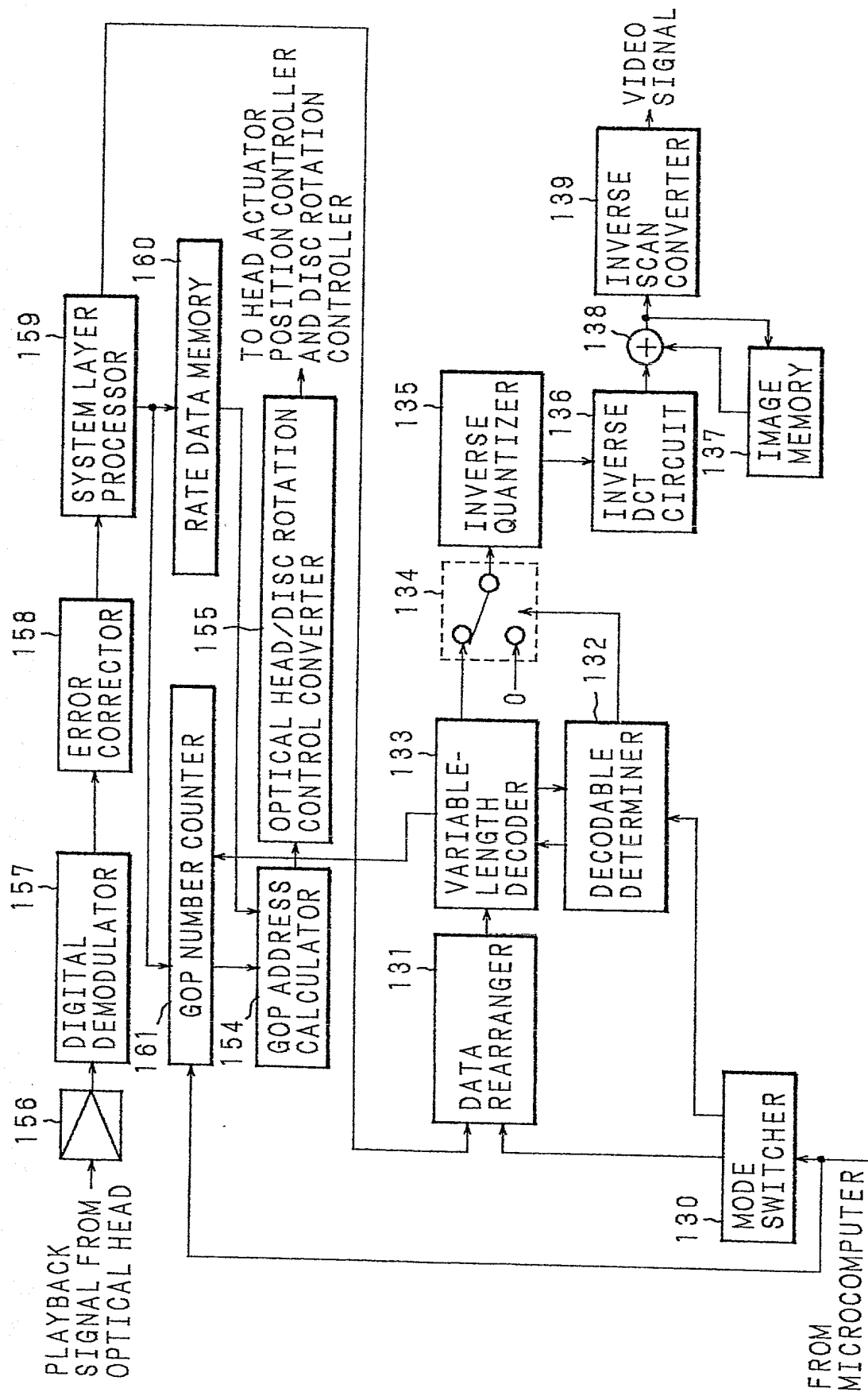


FIG. 80

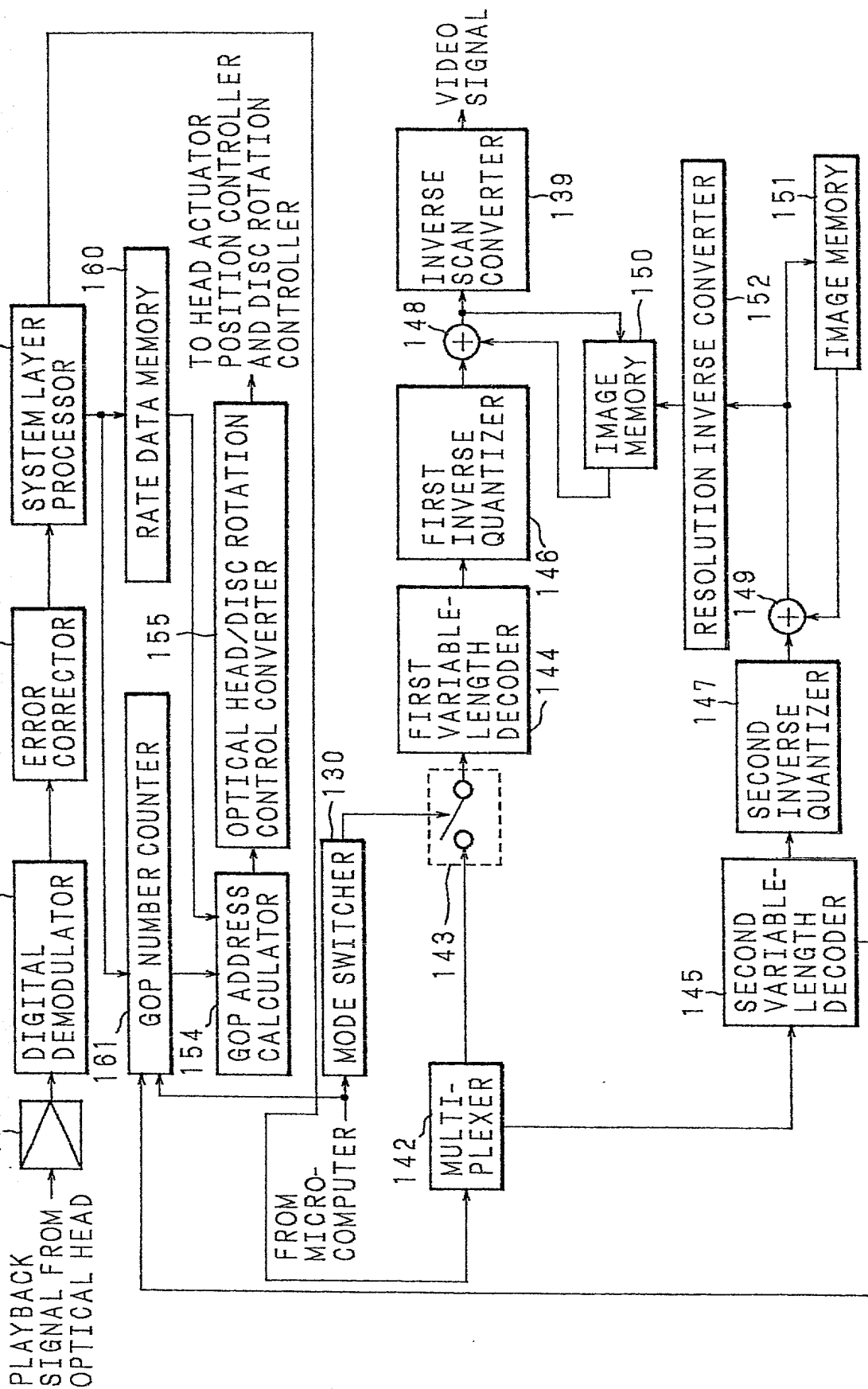


FIG. 81

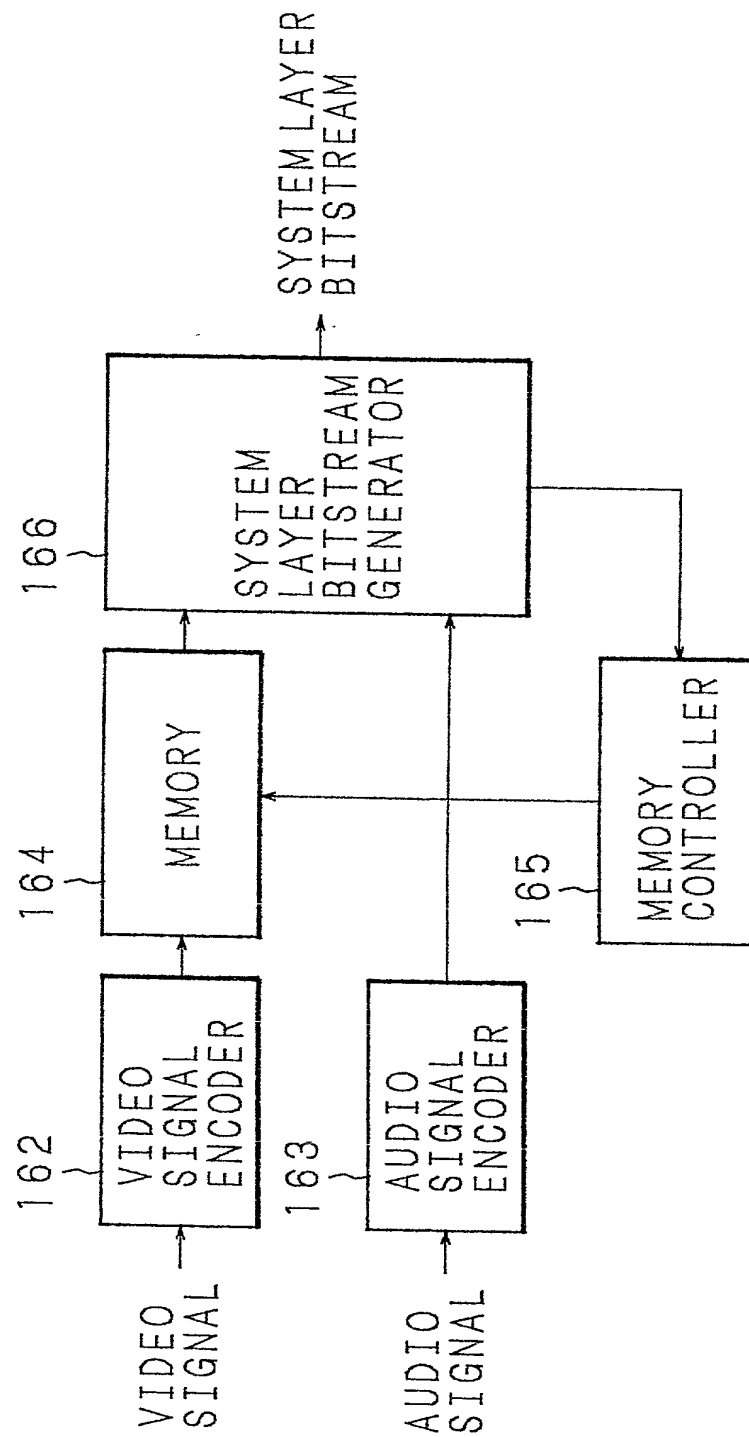


FIG. 82

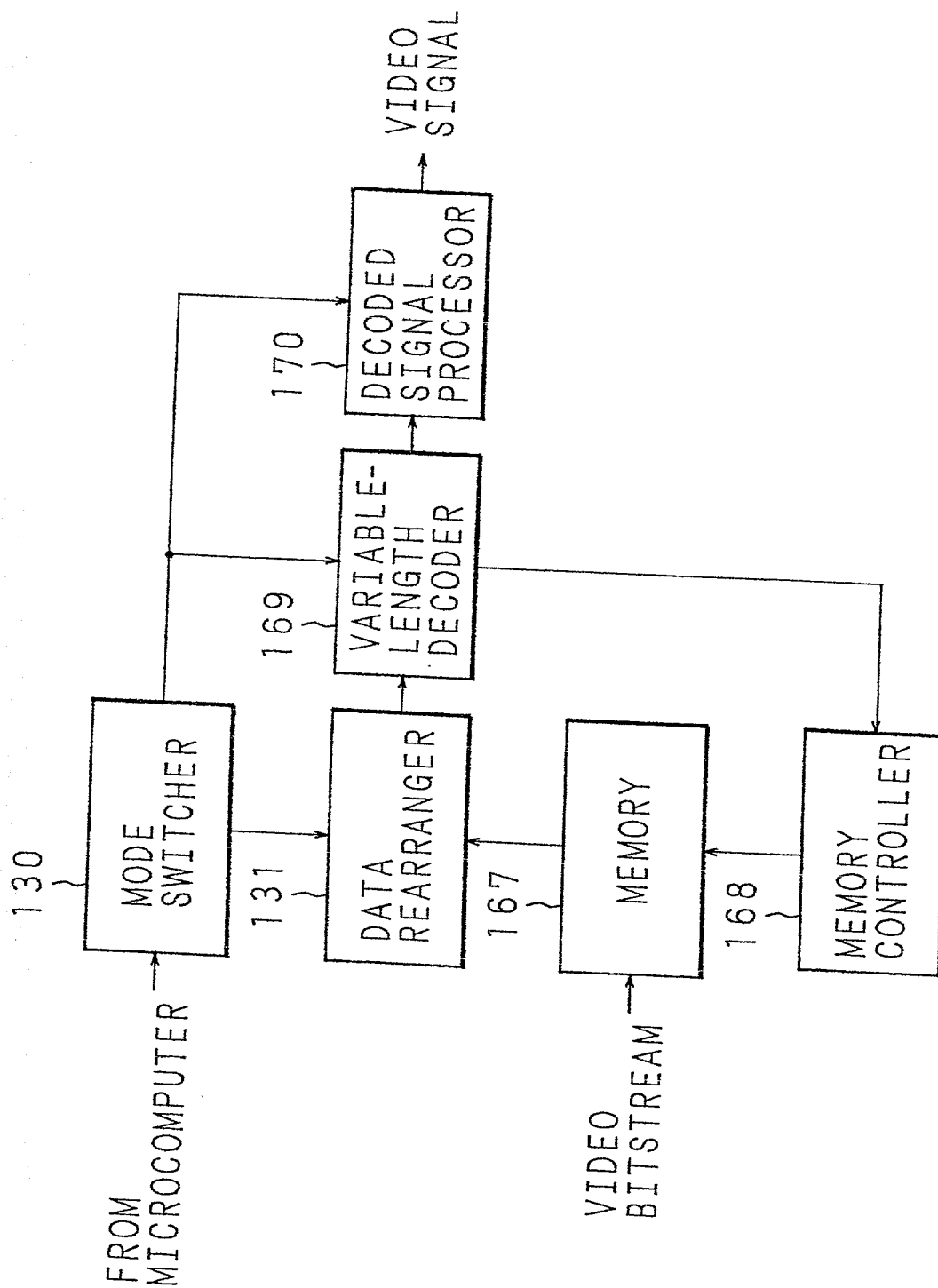


FIG. 83A

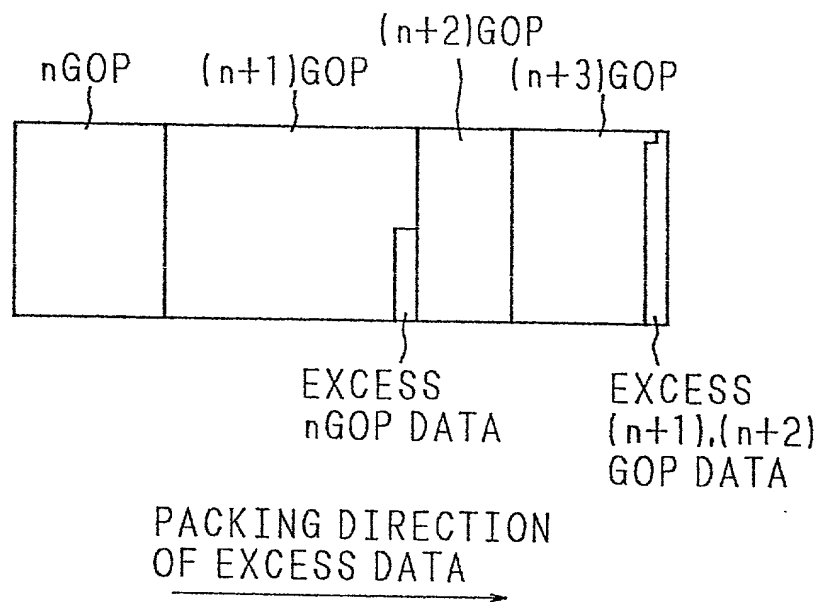
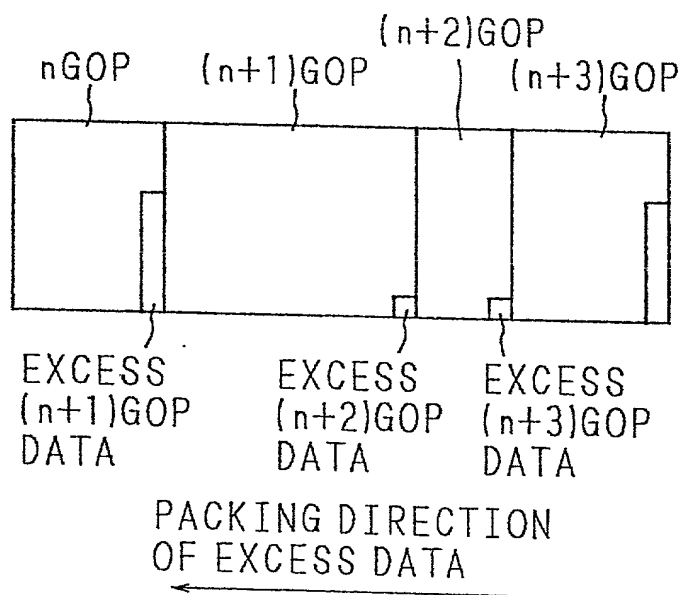
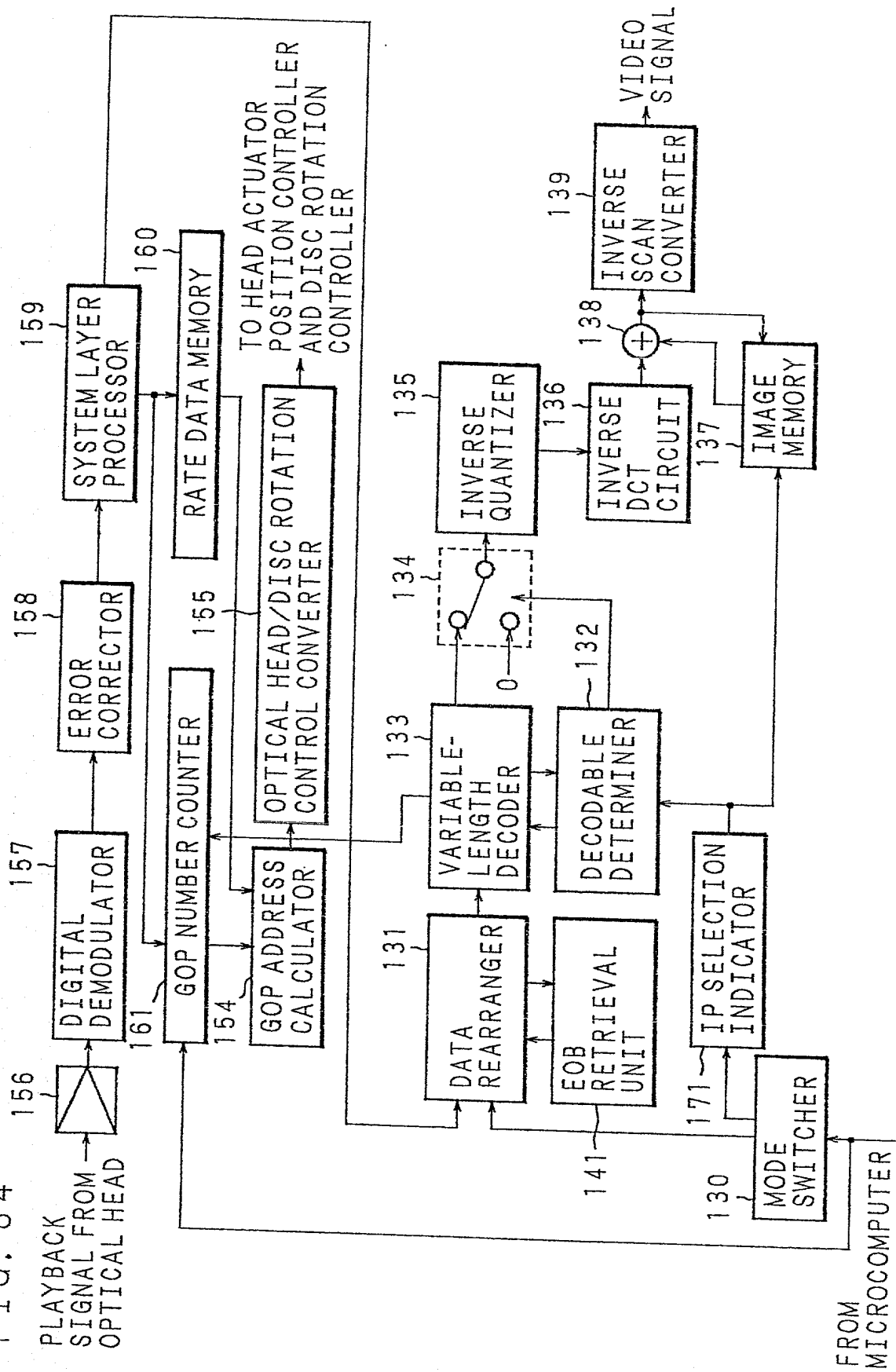


FIG. 83B



THE
WEEKLY
REPORTER



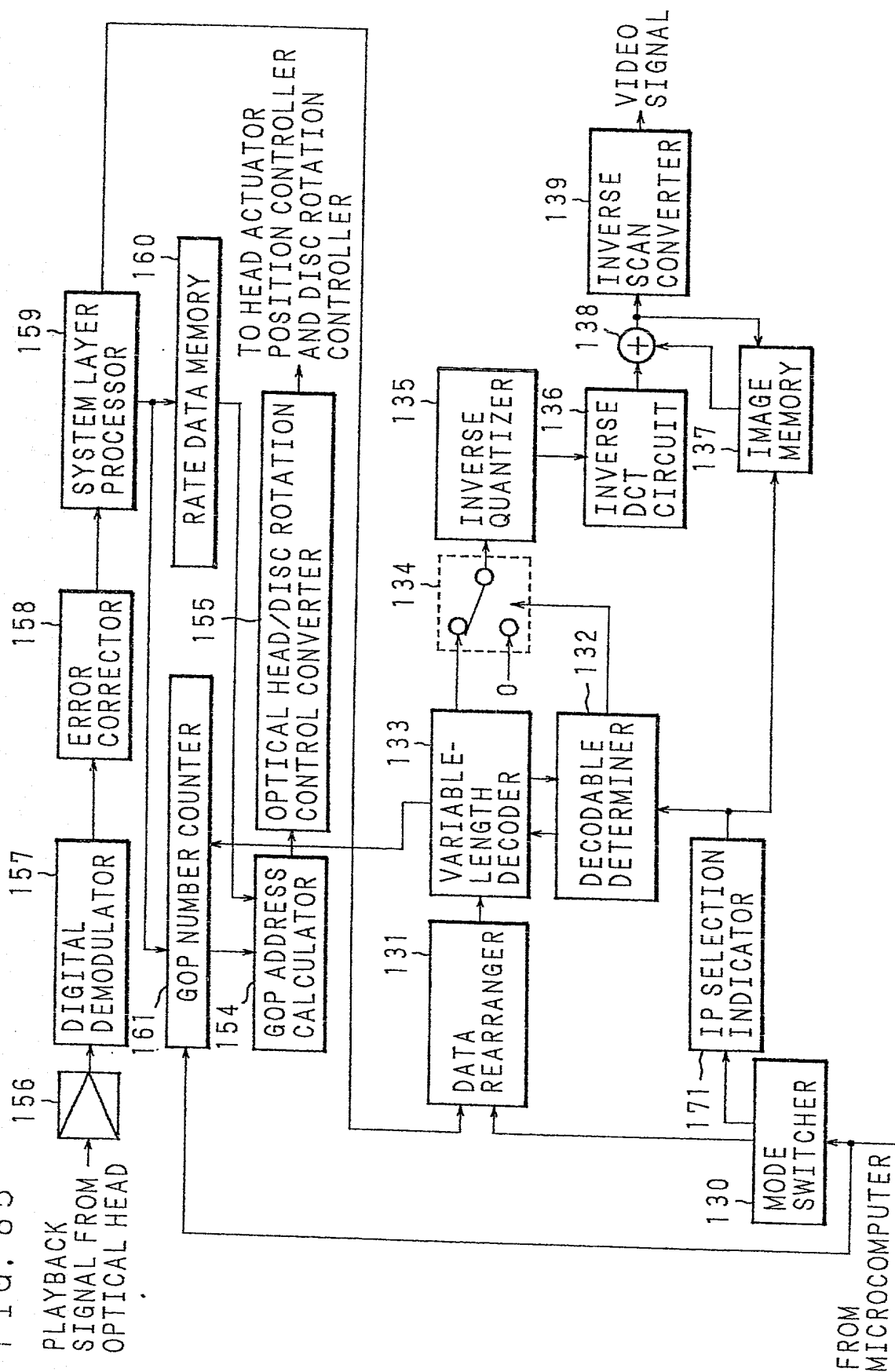
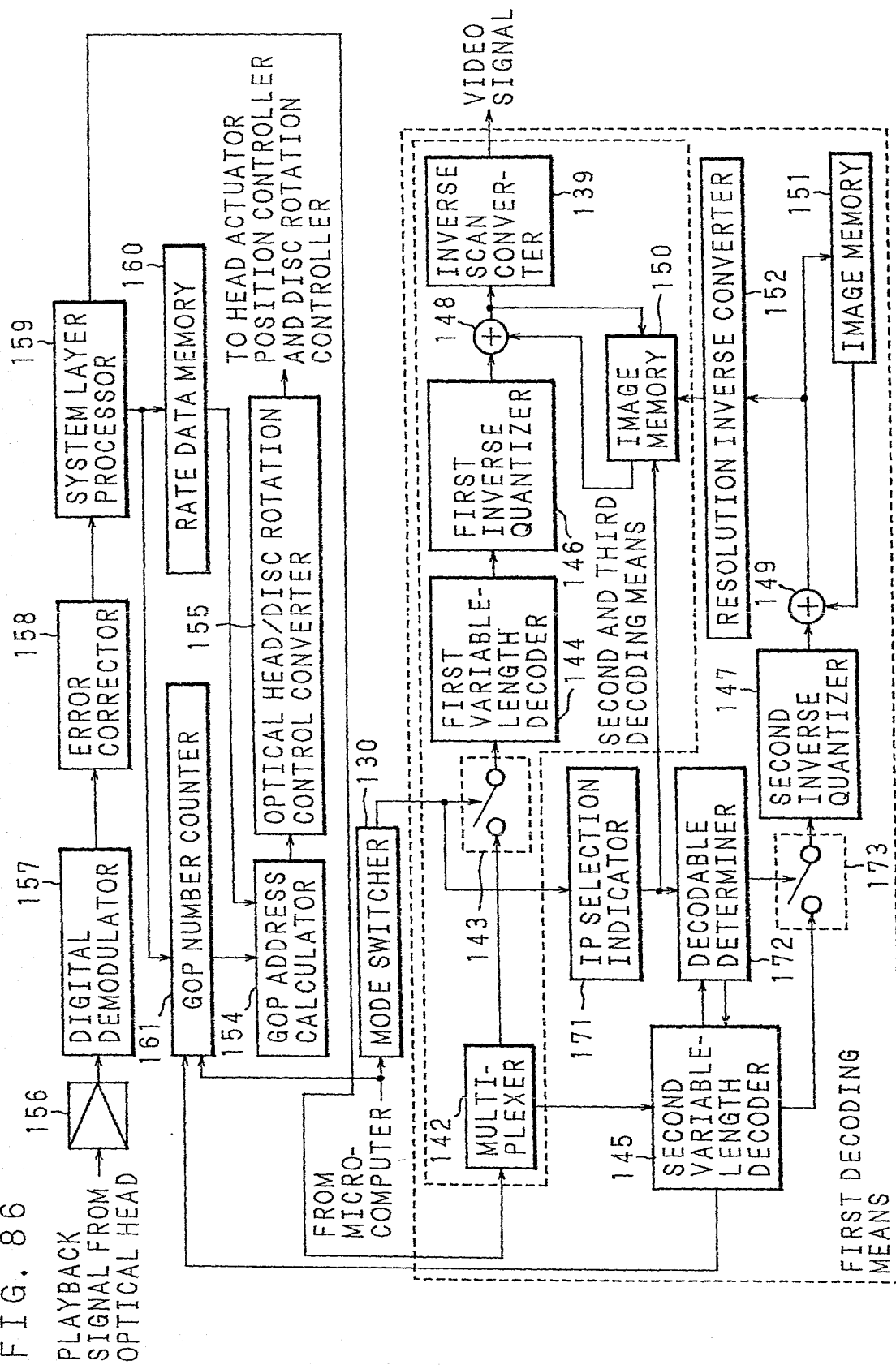
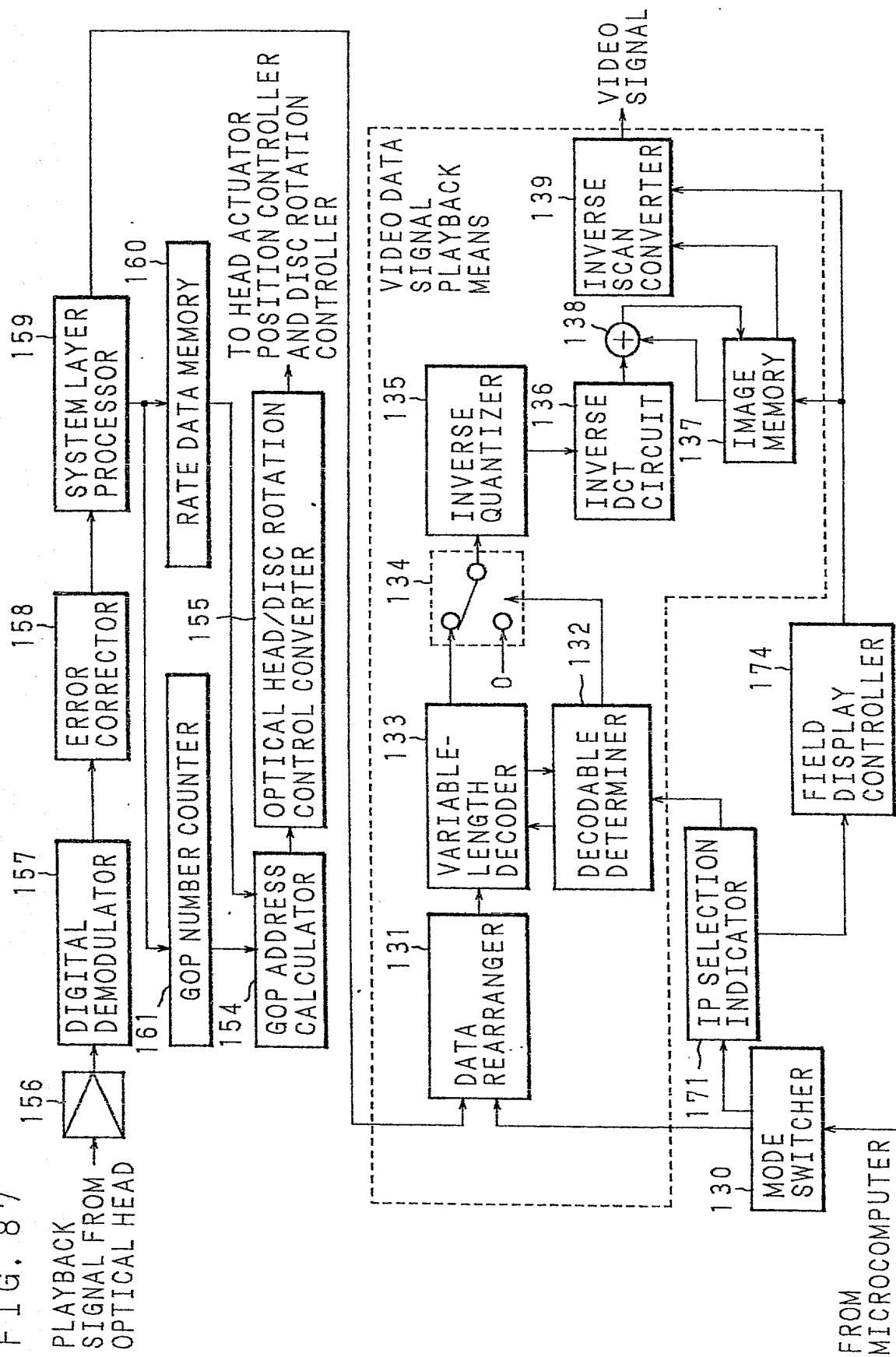
[illegible]

FIG. 86



[illegible]

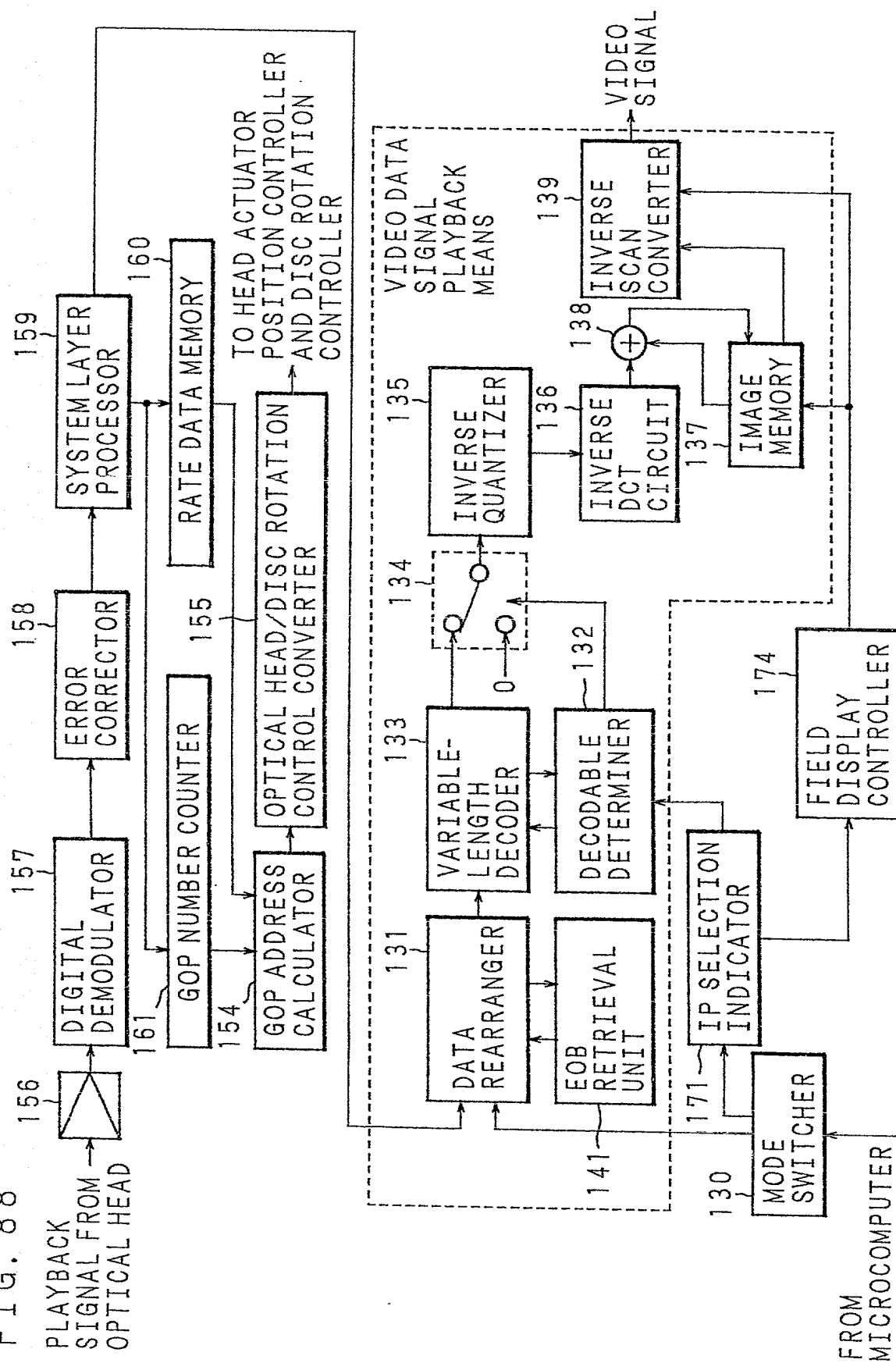
[illegible]

FIG. 89A

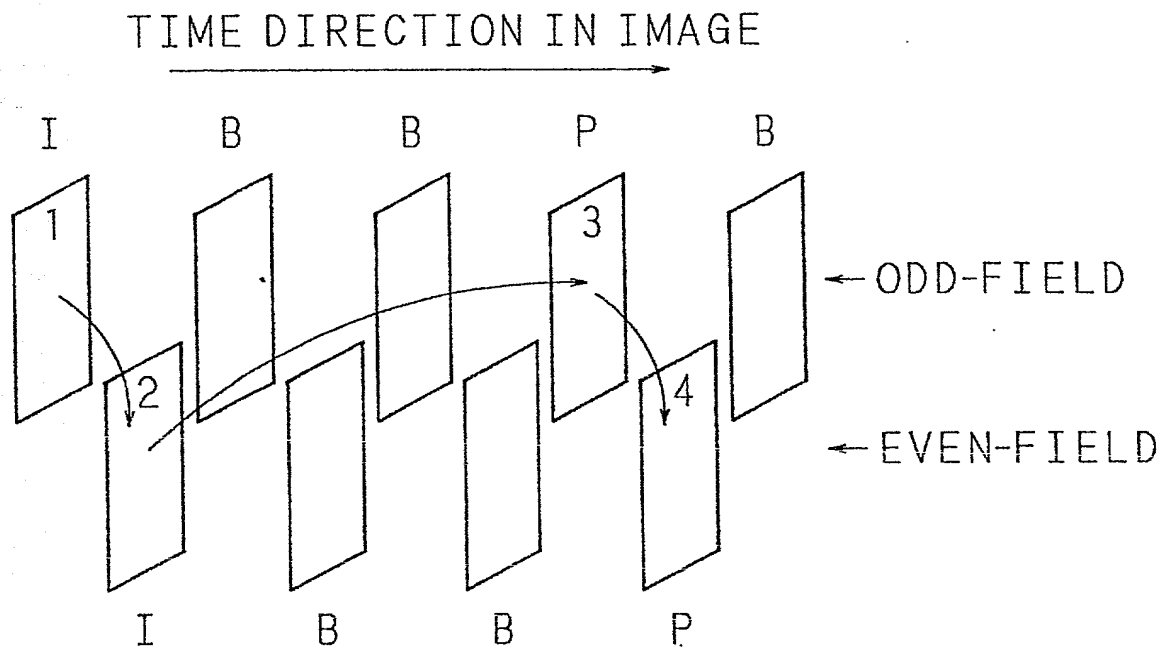


FIG. 89B

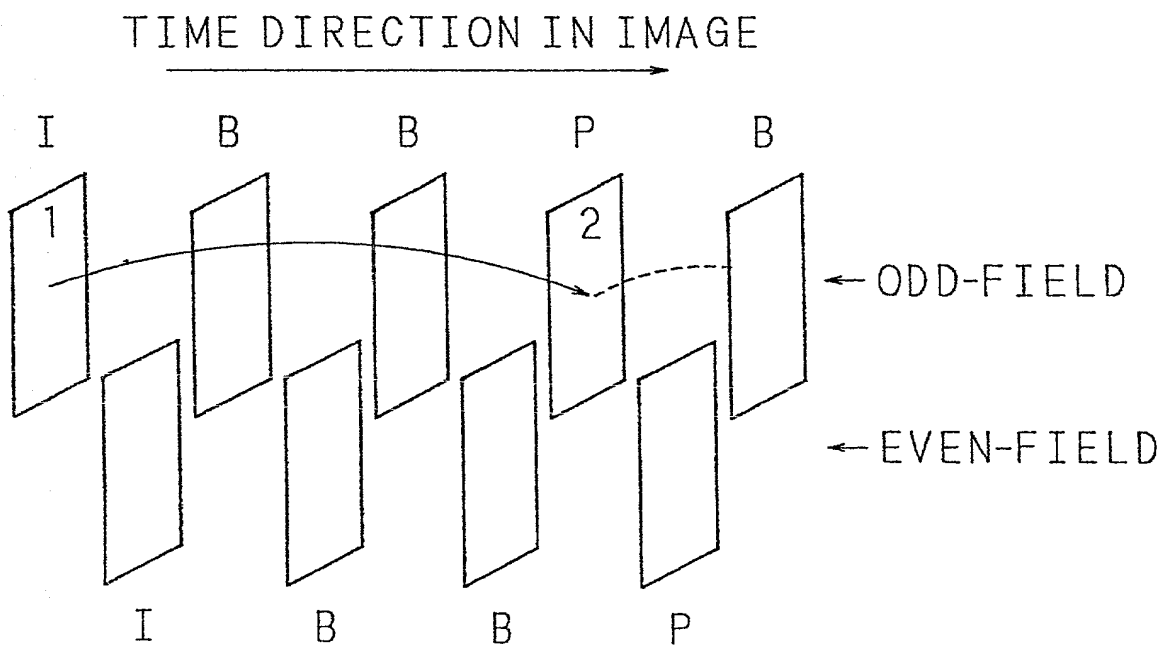


FIG. 90A

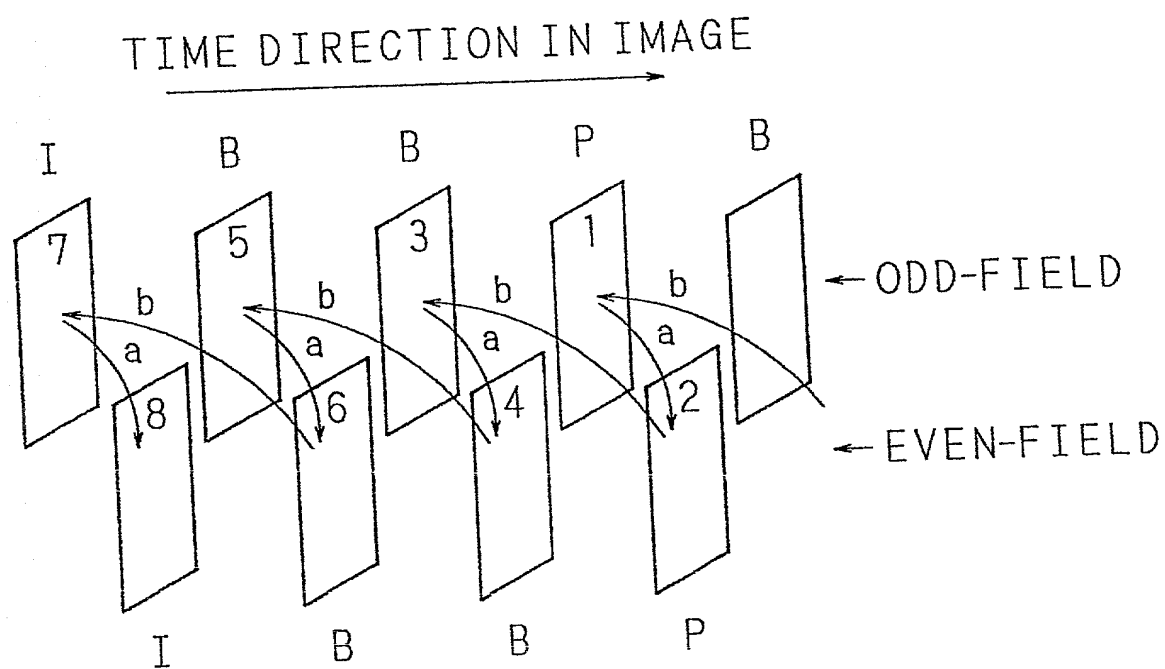


FIG. 90B

